

C-05.1_RE_LV Technical Report Review meeting

From: [Carissa Shoemaker](#)
To: [Blythe Haverstock, Ashley - FS, CA](#)
Subject: RE: [EXTERNAL: Suspicious Link]Lee Vining Tech Report Review stakeholder meeting
Date: Tuesday, April 30, 2024 1:23:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.jpg](#)

Hi Ashley,
The Teams info is incorrect and will not be active during the meeting, apologies! It is an in-person only meeting.
Thanks for checking.

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroupp.com
907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Blythe Haverstock, Ashley - FS, CA <ashley.blythehaverstock@usda.gov>
Sent: Tuesday, April 30, 2024 1:15 PM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [EXTERNAL: Suspicious Link]Lee Vining Tech Report Review stakeholder meeting

You don't often get email from ashley.blythehaverstock@usda.gov. [Learn why this is important](#)

Hi Carissa –
Is this a hybrid meeting? The TEAMS information at the bottom made it seem like it is, but I also see in text “in-person”

Thanks!
Ashley



Ashley Blythe Haverstock
Assistant Forest Archaeologist
R5 Heritage Data Steward
Forest Service
Inyo National Forest, Supervisor's Office

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-----Original Appointment-----

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

C-05.1_RE_LV Technical Report Review meeting

Sent: Tuesday, January 30, 2024 11:31 AM

To: Carissa Shoemaker; matthew.woodhall@sce.com; martin.ostendorf@sce.com; Seth Carr; Audry Williams; Shannon Luoma; Finlay Anderson; Kelly Larimer; Angela Whelpley; Lauren Rosenkranz; Steve Norton; Brad Blood; Allison Rudalevige; jonathan.aguayo@psomas.com; Edith Read; Denise Jaffke; Jay King; Lynn Johnson; Heather Bowen Neff; Ian Pryor; Matt McKechnie; Jessica.fefer@ferc.gov; lyle.laven@sce.com; Meta Bunse; Naomi Jensen; ssmiwuknation@gmail.com; sandra47roy@gmail.com; claymiwumati@gmail.com; secretary@southernsierramiwuknation.org; ndondero21@gmail.com; director@southernsierramiwuknation.org; Vicechair@southernsierramiwuknation.org; mariposamiwuk@sti.net; preservation@southernsierramiwuknation.org; numugrace@gmail.com; cheyenne.stone@bigpinepaiute.org; d.gutierrez@bigpinepaiute.org; s.manning@bigpinepaiute.org; meryl.picard@bishoppaiute.org; darren.delgado@bishoppaiute.org; kutzanuumu@yahoo.com; chair@bridgeportindiancolony.com; admin@bridgeportindiancolony.com; culture@bridgeportindiancolony.com; carl@fortindependence.com; falconkeeper22@gmail.com; Chair@lppsr.org; patsiata@yahoo.com; kathybancroft@gmail.com; char54lange@gmail.com; chair@monolaketribe.us; jsheltraw@monolaketribe.us; dtonenna@gmail.com; dtonenna@monolaketribe.us; rwgoode911@hotmail.com; fbeihn@nfr-nsn.gov; nnaylor@nfr-nsn.gov; cmcdonald@nfr-nsn.gov; efink@nfr-nsn.gov; one_mug@yahoo.com; administrator@timbisha.com; environmental@timbisha.com; THPO@timbisha.com; andrea@mewuk.com; jon@mewuk.com; rfuller@mewuk.com; s.saulque@bentontribe.org; stwiss@wrpt.org; Lscott@wrpt.org; lucy_basket4@yahoo.com; nayanake@comcast.net; nativearchdoc@yahoo.com; serrell.smokey@washoetribe.us; THPO@WashoeTribe.us; Barnett, Adam - FS, CA; adam.cohen@waterboards.ca.gov; Adam.Perez@ladwp.com; Alisa.Ellsworth@wildlife.ca.gov; Alyssa.Hockaday@Wildlife.ca.gov; andrea@accessfund.org; ARoesberry@caltrout.org; Blythe Haverstock, Ashley - FS, CA; bartshe@monolake.org; bbell@co.tuolumne.ca.us; beth.lawson@wildlife.ca.gov; Brandy.Wood@Wildlife.ca.gov; bryan.hatchell@colorado.edu; bryan.muro@waterboards.ca.gov; Bryant.Luu@wildlife.ca.gov; calweb@tnc.org; Chad_Mellison@fws.gov; chair@toyabe.sierraclub.org; cknight@caltrout.org; clerkrecorder@mono.ca.gov; comdev@mono.ca.gov; conservation@bristleconecons.org; cshutes@calsport.org; curator@monobasinhistory.org; daniel.sussman@waterboards.ca.gov; Yarborough, Daniel - FS, CA; Alvarez, Dawn - FS, CA; easternsierraartist@gmail.com; env@bridgeportindiancolony.com; Rios-Bretado, Eric - FS, CA; eric.tillemans@ladwp.com; eric@friendsoftheriver.org; erik@accessfund.org; events@mammothmuseum.org; ferccaseadmin@sce.com; FOMLR@bodiefoundation.org; frontierpacktrain@gmail.com; gardenofegan@suddenlink.net; geoff@monolake.org; ghaverst@blm.gov; graham.meese@wildlife.ca.gov; greg@monolake.org; GRoff@caltrout.org; Heather_Beeler@fws.gov; holly@invo-monowater.org; hydroesq@schat.net; info@monolake.org; info@rockcreekpackstation.com; Beidl, Jacqueline - FS, CA; Washington, Jameisha - FS, CA; James.Erdman@wildlife.ca.gov; jbethel@northforkrancheria-nsn.gov; jennifer.watts@waterboards.ca.gov; Jenny Hatch; jkrclr@gmail.com; jocelynsheltraw@gmail.com; johnwentworth@mltpa.org; jonklusmire@yahoo.com; Starosta, Jeffrey A; jstrickland@tu.org; John Thornton; justin_barrett@fws.gov; Schlick, Kary - FS, CA; katie@accessfund.org; kayla@friendsoftheinvo.org; kquinlan16@gmail.com; lilian_jonas@contractor.nps.gov; lisa@monolake.org; lprimosc@blm.gov; markbagley02@gmail.com; maryroper51@gmail.com; Matt Driscoll; michael.tovar@wildlife.ca.gov; Wiese, Michael - FS, CA; Sanchez, Monique - FS, CA;

C-05.1_RE_LV Technical Report Review meeting

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Subject: [EXTERNAL: Suspicious Link]Lee Vining Tech Report Review stakeholder meeting

When: Tuesday, May 14, 2024 9:00 AM-4:00 PM (UTC-08:00) Pacific Time (US & Canada).

Where: Lee Vining Community Center (296 Mattly Ave, Lee Vining, CA 93541)

Some people who received this message don't often get email from carissa.shoemaker@kleinschmidtgroup.com.
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Hello Lee Vining relicensing interested parties,

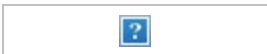
Please join the Lee Vining relicensing team for an in-person stakeholder meeting on May 14. During the meeting, we will discuss draft Technical Reports, potential Project effects, and address stakeholder questions. It will be held at the Lee Vining Community Center at 296 Mattly Ave, Lee Vining, CA 93541.

Additional information and copies of meeting materials will follow, closer to the meeting date.

Please let me know if you have any questions.

Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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C-05.2_LV Technical Report Review Meeting Agenda

From: [Carissa Shoemaker](mailto:Carissa.Shoemaker)
To: ["matthew.woodhall@sce.com"](mailto:matthew.woodhall@sce.com); ["martin.ostendorf@sce.com"](mailto:martin.ostendorf@sce.com); ["seth.carr@sce.com"](mailto:seth.carr@sce.com); ["Audry.Williams@sce.com"](mailto:Audry.Williams@sce.com); [Shannon Luoma](mailto:Shannon.Luoma); [Finlay Anderson](mailto:Finlay.Anderson); [Kelly Larimer](mailto:Kelly.Larimer); [Angela Whelpley](mailto:Angela.Whelpley); [Lauren Rosenkranz](mailto:Lauren.Rosenkranz); ["steve.norton@psomas.com"](mailto:steve.norton@psomas.com); ["bblood@psomas.com"](mailto:bblood@psomas.com); ["allison.rudalevige@psomas.com"](mailto:allison.rudalevige@psomas.com); ["jonathan.aguayo@psomas.com"](mailto:jonathan.aguayo@psomas.com); ["marshmistress@msn.com"](mailto:marshmistress@msn.com); ["denise@farwestern.com"](mailto:denise@farwestern.com); ["jay@farwestern.com"](mailto:jay@farwestern.com); ["lynn@teamentvironmental.com"](mailto:lynn@teamentvironmental.com); ["heather@stillwatersci.com"](mailto:heather@stillwatersci.com); ["ian@stillwatersci.com"](mailto:ian@stillwatersci.com); 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["saddlebaglake@gmail.com"](mailto:saddlebaglake@gmail.com); ["Saeed.Jorat@ladwp.com"](mailto:Saeed.Jorat@ladwp.com); ["sb@snowhydrology.com"](mailto:sb@snowhydrology.com); ["sheila.iron@usda.gov"](mailto:sheila.iron@usda.gov); ["shellydk@frontiernet.net"](mailto:shellydk@frontiernet.net); ["SJacobson@caltrout.org"](mailto:SJacobson@caltrout.org); ["stephanie.heller@usda.gov"](mailto:stephanie.heller@usda.gov); ["stephen_bowes@nps.gov"](mailto:stephen_bowes@nps.gov); ["steve.parmenter@wildlife.ca.gov"](mailto:steve.parmenter@wildlife.ca.gov); ["tiogalodge@gmail.com"](mailto:tiogalodge@gmail.com); ["tiogapassresortllc@gmail.com"](mailto:tiogapassresortllc@gmail.com); ["todd.ellsworth@usda.gov"](mailto:todd.ellsworth@usda.gov); ["triplepoonth2o@gmail.com"](mailto:triplepoonth2o@gmail.com); ["tristan.leong@usda.gov"](mailto:tristan.leong@usda.gov); ["victor.aguirreorozco@usda.gov"](mailto:victor.aguirreorozco@usda.gov); ["wendy@friendsoftheinyo.org"](mailto>wendy@friendsoftheinyo.org); ["Wilfred.Nabahe@usda.gov"](mailto:Wilfred.Nabahe@usda.gov); ["wsugimura@mono.ca.gov"](mailto:wsugimura@mono.ca.gov); ["lori.gillem@ladwp.com"](mailto:lori.gillem@ladwp.com); ["rainbowpackers@aol.com"](mailto:rainbowpackers@aol.com); ["lundylakeresort@gmail.com"](mailto:lundylakeresort@gmail.com)
Cc: [Jessica Strickland](mailto:Jessica.Strickland); [Bret Hoffman](mailto:Bret.Hoffman); [Andrea Hassler](mailto:Andrea.Hassler); [Olivia Smith](mailto:Olivia.Smith); [Lyons-Gould, Andrew](mailto:Lyons-Gould.Andrew) - FS, CA
Subject: Lee Vining Tech Report Review stakeholder meeting
Attachments: <image001.jpg>
[LV Tech Report Review Meeting Agenda 05072024.pdf](LV_Tech_Report_Review_Meeting_Agenda_05072024.pdf)

Our agenda is attached!

See you Tuesday.

Hello Lee Vining relicensing interested parties,

C-05.2_LV Technical Report Review Meeting Agenda

Please join the Lee Vining relicensing team for an in-person stakeholder meeting on May 14. During the meeting, we will discuss draft Technical Reports, potential Project effects, and address stakeholder questions. It will be held at the Lee Vining Community Center at 296 Mattly Ave, Lee Vining, CA 93541.

Please let me know if you have any questions.

Thank you

Carissa Shoemaker

Licensing Coordinator

<<https://www.kleinschmidtgroup.com/>>

C: 907-575-0294

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Lee Vining Hydroelectric Project Relicensing

Technical Report Review Stakeholder Meeting

May 14, 2024, 9:00 a.m. – 4:00 p.m. PDT in-person
 Lee Vining Community Center, 296 Mattly Ave, Lee Vining, CA

Objectives

- Review Technical Study Reports
- Address stakeholder questions
- Preview Draft License Application

Duration (minutes)	Agenda Topic/Subtopic	Lead
25	Welcome, Introductions, Meeting Objectives	
	<ul style="list-style-type: none"> - Safety moment - Introductions - Regulatory and Process, Look Back and Look Ahead - Meeting objectives 	Matthew Woodhall Shannon Luoma
25	Action Alternatives	
	<ul style="list-style-type: none"> - No Action <ul style="list-style-type: none"> o Continue with current license - Proposed Action <ul style="list-style-type: none"> o Modified Project Boundary o Additional/modified PMEs and management plans 	Shannon Luoma
120	Aquatics and Hydrology Studies	
	<ul style="list-style-type: none"> - Studies overview and Potential Project Effects <ul style="list-style-type: none"> o Operations Modeling AQ-5 o Stream and Reservoir Water Quality WQ-1 o Lower LVC Channel Morphology AQ-6 o Aquatic Invasive Plants AQ-4 o Aquatic Habitat Mapping and Sediment Char. AQ-3 o Stream Fish Population AQ-2 o Reservoir Fish Population AQ-1 	Bret Hoffman Isha Deo Heather Neff Noah Hume Matt McKechnie
60	Lunch break	
60	Terrestrial Studies	
	<ul style="list-style-type: none"> - Studies overview and Potential Project Effects <ul style="list-style-type: none"> o Botanical TERR-1 o Wildlife TERR-2 	Allison Rudalevige Steve Norton

C-05.2 LV Technical Report Review Meeting Agenda

30	Cultural and Tribal Studies	
	<ul style="list-style-type: none">- Studies overview and Potential Project Effects<ul style="list-style-type: none">o Cultural CUL-1o Tribal TRI-1	Audry Williams
30	Recreation and Land Use Studies	
	<ul style="list-style-type: none">- Studies overview and Potential Project Effects<ul style="list-style-type: none">o <i>Recreation Use and Assessment REC-1</i>o Facilities Condition Assessment REC-2o Aesthetic Resources LAND-2o Project Lands and Roads LAND-1	Angela Whelpley Shannon Luoma
10	Schedule and Next Steps	
	<ul style="list-style-type: none">- Project Schedule- Deadlines and Next Steps	Shannon Luoma
60	Final Q&A	
	Adjourn	

C-05.3_Re_LV Technical Report Review meeting

From: [Carissa Shoemaker](#)
To: [Raymond Andrews](#)
Cc: [Audry Williams](#); [Shannon Luoma](#); [Matthew Woodhall](#); [Lynn Johnson](#)
Subject: Re: Lee Vining Tech Report Review stakeholder meeting
Date: Tuesday, May 14, 2024 7:47:08 AM
Attachments: [image001.jpg](#)

Hi Raymond,

This was planned as an in-person meeting only and we don't have a call-in option today. We will provide meeting notes and the presentation slides soon after. We are happy to meet with you separately if you have questions about the material.

Thank you!

Carissa Shoemaker

Sent via the Samsung Galaxy S22 5G, an AT&T 5G smartphone
Get [Outlook for Android](#)

From: Raymond Andrews <kutzanuumu@yahoo.com>
Sent: Tuesday, May 14, 2024 6:41:45 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: Re: Lee Vining Tech Report Review stakeholder meeting

You don't often get email from kutzanuumu@yahoo.com. [Learn why this is important](#)

Good Morning Carissa,
Hoping this finds you and yours in good health and spirits.
Is there a zoom link for this meeting?
I respectfully request a zoom link for this meeting.
Thank you in advance for your favorable consideration to this request.
Mahno
Raymond Andrews
One of the most cowardly things ordinary people make is
to shut their eyes to facts

On Thursday, May 9, 2024 at 09:51:10 AM PDT, Carissa Shoemaker
<carissa.shoemaker@kleinschmidtgroup.com> wrote:

Our agenda is attached!
See you Tuesday.

Hello Lee Vining relicensing interested parties,

Please join the Lee Vining relicensing team for an in-person stakeholder meeting on May 14. During

C-05.3_Re_LV Technical Report Review meeting

the meeting, we will discuss draft Technical Reports, potential Project effects, and address stakeholder questions. It will be held at the Lee Vining Community Center at 296 Mattly Ave, Lee Vining, CA 93541.

Please let me know if you have any questions.
Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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C-06_LV 05-14-24 Technical Report Review Meeting PPT

From: [Carissa Shoemaker](#)
To: [Robert Di Paolo](#); [Meagher, Mary - FS, CA](#); [Meese, Graham@Wildlife](#); [anne.mawkowski@fws.gov](#); [Mellison, Chad](#); [beth.lawson@wildlife.ca.gov](#); [Luu, Bryant@Wildlife](#); [daniel.anderson@wildlife.ca.gov](#); [tristan.leong@usda.gov](#); [michael.wiese@usda.gov](#); [sheila.ironson@usda.gov](#); [Bartshe Miller](#); [ashley.blythehaverstock@usda.gov](#); [dannon.dirgo@usda.gov](#); [Andrew.Lyons-gould@usda.gov](#); [Jameisha.Washington@usda.gov](#); [dtonenna@monolaketribe.us](#)
Cc: [Matthew Woodhall](#); [Martin Ostendorf](#); [Seth Carr](#); [Audry Williams](#); [Kelly Larimer](#); [Finlay Anderson](#); [Shannon Luoma](#); [Angela Whelpley](#); [Isha Deo](#); [Bret Hoffman](#); [Heather Neff](#); [Noah Hume](#); [Matt McKechnie](#); [Allison Rudalevige](#); [Brad Blood](#); [Steve Norton](#); [marshmistress@msn.com](#); [Lynn Johnson](#)
Subject: Lee Vining 2023 Technical Report Review Meeting PPT
Date: Friday, May 17, 2024 10:10:00 AM
Attachments: [image001.jpg](#)
[LV Tech Report Review Meeting PPT 05142024.pdf](#)

Hello!

Thank you for joining us on Tuesday May 14 for the Lee Vining 2023 Technical Report Review Meeting. The day went really well and we are so glad we had the opportunity to see you all in person.

Attached is the PowerPoint presentation and below is a list of all the meeting attendees, including those that presented.

We are compiling meeting notes and will distribute those when they are completed as well.

And just a reminder that we would like your comments on the Draft Tech Reports by June 11.

Please let me know if you have any questions!

Thanks everyone

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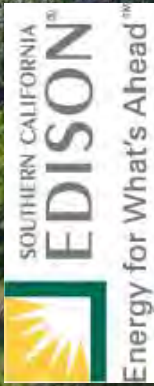
Carissa Shoemaker
Licensing Coordinator



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Lee Vining Hydroelectric Project FERC No. 1388

Welcome!

Technical Report Review Stakeholder Meeting

May 14, 2024

Welcome and Land Acknowledgment

SCE would like to take a moment and recognize that the Lee Vining Project is located on the Mono Lake Kutzadika^a Tribes' traditional lands, which they have stewarded for generations.

Safety Moment



Welcome and Introductions: Lee Vining Relicensing Team

SCE Team

Matthew Woodhall
Project Manager

Martin Ostendorf
Senior Manager

Audry Williams
Cultural Resources Manager

Seth Carr
Operations Manager

Consultant Team

Shannon Luoma
Project Manager

Kelly Larimer
Project Director

Carissa Shoemaker
TWG Coordinator

Angela Whelpley
Recreation and Land Use
Lead

Finlay Anderson
Technical Advisor

Lynn Johnson
Tribal Lead

Jay King
Cultural Lead

**Bret Hoffman and
Isha Deo**
Operations Model Leads

Heather Neff
Aquatics Lead

**Allison Rudalevige and
Steve Norton**
Botanical and Wildlife Leads

Meeting Agenda

- Safety moment, welcome, and introductions
- Meeting objectives
- Regulatory and Process, Look Back and Look Ahead
- Action Alternatives
 - No Action, Proposed Action
- Aquatics and Hydrology Studies
 - AQ-5, WQ-1, AQ-6, AQ-4, AQ-3, AQ-2, and AQ-1
- Terrestrial Studies
 - TERR-1, TERR-2
- Cultural and Tribal Studies
 - CUL-1, TRI-1
- Recreation and Land Use Studies
 - REC-1, REC-2, LAND-2, LAND-1
- Schedule, next steps, action items
- Final questions

Rules of Engagement

- Take breaks as needed
- Professional and polite
- Ask questions during appropriate times of the presentation
 - Raise your hand, wait for acknowledgement
- Try to hold discussion until the end of each study
- Will review action items at the end of the meeting

Meeting Objectives

- Review Technical Study Reports
- Address stakeholder questions
- Preview DLA

Regulatory and Process Look Back

- SCE is utilizing the Traditional Licensing Process (TLP)
 - FERC does not engage until end of process, following FLA filing
 - Less structured “formal” milestone schedule around studies
- Study Plans were developed in collaboration with Technical Work Group (TWG) members:
 - 12+ TWG meetings January-May 2021
 - Study Plan revisions – February 2022
 - Final Study Plans filed April 2022
- Studies implemented between 2022 - 2024
- Tech Memos distributed January 23, 2023
- Technical Reports distributed April 2024.

Regulatory and Process Look Ahead

- May 2024 Technical Report Meeting
 - Discuss reports and findings
- 2024 studies:
 - Recreation Use and Needs
 - Additional cultural resources surveys
 - Focused YOTO studies
- Draft License Application due to FERC September 3, 2024
 - Comments due December 2, 2024
- Final License Application due to FERC January 31, 2025

Action Alternatives

No Action Alternative

- SCE would continue to operate and maintain the Project under current terms and conditions of the 1997 FERC license

Proposed Action

- SCE is proposing no new construction or change in operations as compared to current license conditions
 - Minor FERC boundary adjustments are being proposed to account for existing activities and improvements in mapping technology
 - New or modified protection, mitigation, or enhancement (PME) measures and management plans may be included in the DLA

Studies Overview

Studies and Year(s) Implemented

Study	Year(s) Implemented
Reservoir Fish Population Study (AQ-1)	2022
Stream Fish Populations Study (AQ-2)	2022
Aquatic Habitat Mapping and Sediment Characterization (AQ-3)	2023
Aquatic Invasive Plants Survey (AQ-4)	2023
Operations and Hydrology Model (AQ-5)	2022 & 2023
Lower Lee Vining Creek Channel Morphology (AQ-6)	2022 & 2023
Stream and Reservoir Water Quality Study (WQ-1)	2022 & 2023
General Botanical Resources Survey (TERR-1)	2022 & 2023
General Wildlife Resources Survey (TERR-2)	2022, 2023, & 2024
Cultural Resources (CUL-1)	2022, 2023, & 2024
Tribal Resources (TR-1)	2023
Recreation Use Assessment (REC-1)	2022 & 2024
Facilities Condition Assessment (REC-2)	2023
Project Lands and Roads Assessment (LAND-1)	2023
Aesthetic Resource (LAND-2)	2023

Technical Study Report Review

Aquatic Resources

- Operations Modeling (AQ-5)
- Stream and Reservoir Water Quality Study (WQ-1)
- Lower Lee Vining Creek Channel Morphology (AQ-6)
- Aquatic Invasive Plants Survey (AQ-4)
- Aquatic Habitat Mapping and Sediment Characterization (AQ-3)
- Stream Fish Populations Study (AQ-2)
- Reservoir Fish Population Study (AQ-1)

AQ-5 Operations Modeling

- Conducted via desktop in 2023-2024
- Goals for model development:
 - Facilitate understanding how Project operations interact with Lee Vining hydrology and hydraulics
 - Ability to make informed decisions regarding the implementation of, and results from, other relicensing studies by examining impacts associated with hydrologic availability and reallocation and potential local hydraulic changes

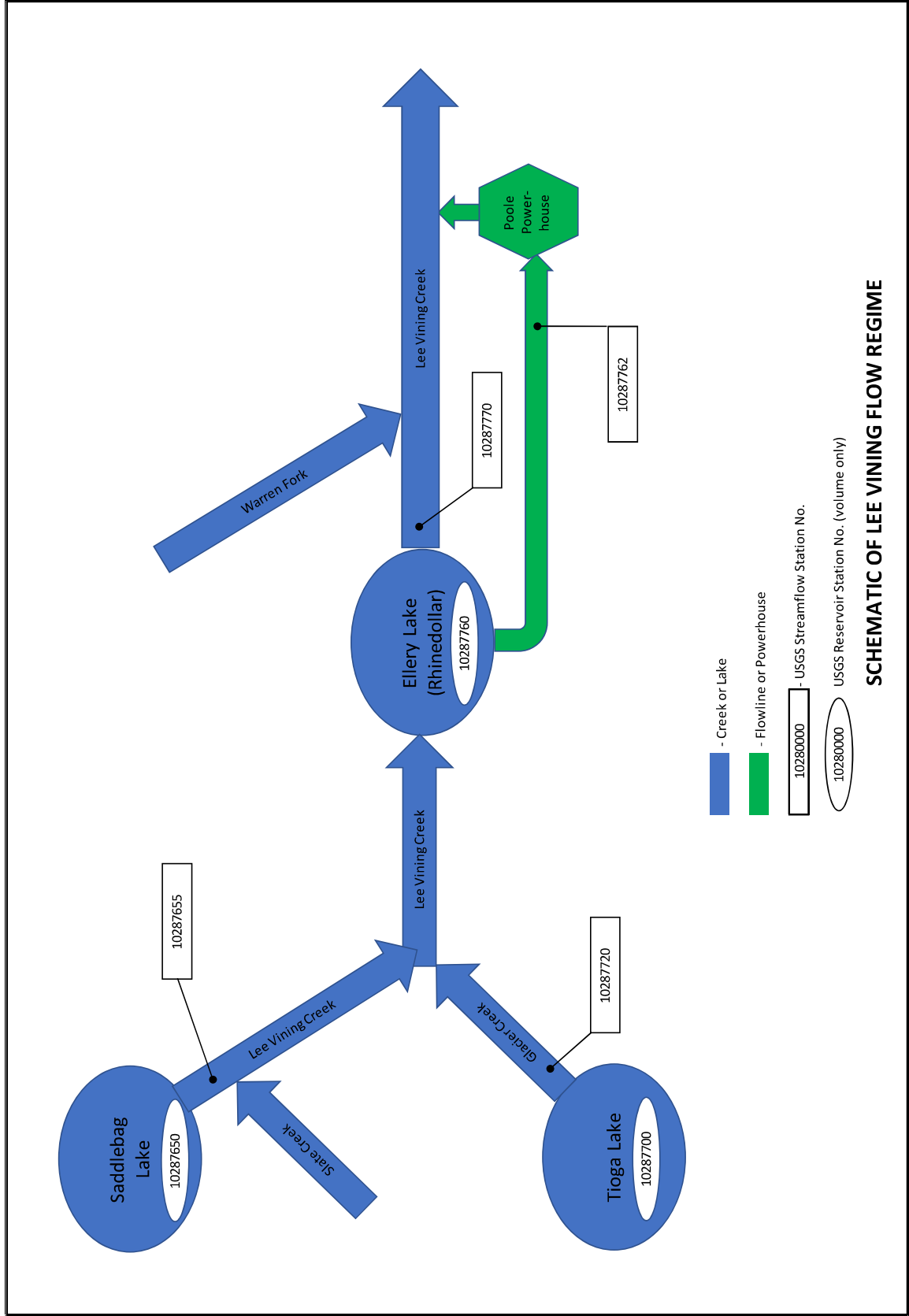
AQ-5 Operations Modeling

- Model system inflows, outflows, and generation nodes
- Align model efforts with needs of other relicensing studies and information needs
- Develop procedures to configure model for alternative operational scenarios and document results
- Determine effective operating limits of Poole Powerhouse (installed vs. dependable capacity)

AQ-5 Operations Modeling

- Model development process
 - Dataset availability review & selection
 - Selection of model period of record
 - Inflow datasets via mass balance
 - Physical constraints: stage-storage, Poole
- Challenges encountered
 - Negative inflows
 - Gaps in data
 - Unregulated ungauged inflows (Rhinedollar-Poole)
 - Active management through consultation (Saddlebag)

AQ-5 Operations Modeling



AQ-5 Operations Modeling

- Calibration via model calculated outflow vs. sum of USGS outflows
 - 27,620 AF vs. 27,615 AF (respectively)
- User input / alternative operations
 - Potential for changing flows, currently have four start dates for each flow allocation for each year type (can add more but should be realistic based on access)
 - Release logic: min Q, storage depletion, historic year type
- Metrics – need to add based on TWG input
 - Graph of hydrograph at select locations, representative years
 - Percent of time targets met

AQ-5 Operations Modeling

- Determine the frequency, magnitude, duration, and seasonality of intraday releases from the Poole Powerhouse in response to hydro-resource optimization needs
- Describe the stage/discharge relationship at discreet locations between the Poole Powerhouse and the Los Angeles Department of Water and Power (LADWP) diversion.

AQ-5 Operations Modeling

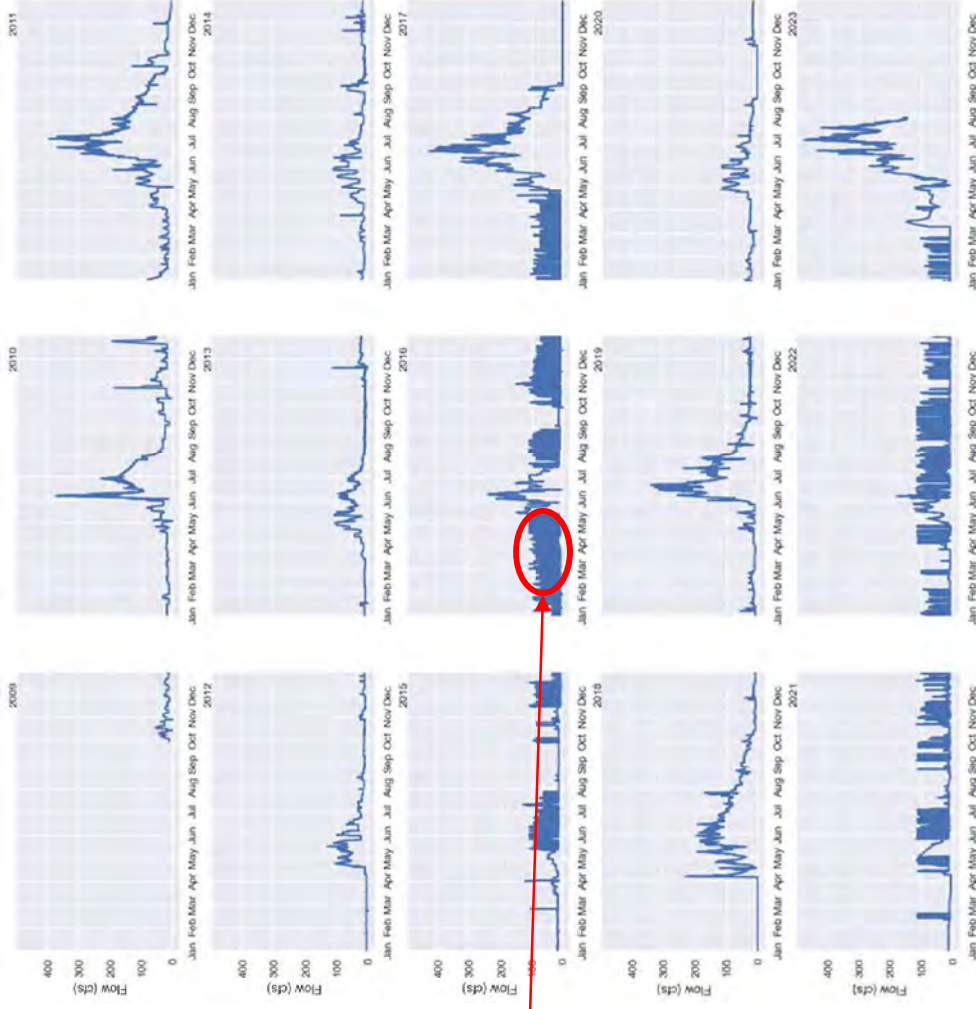
Available Data

- Powerhouse & spillway flow from October 2009 – August 2023
- LADWP Gage Data from May 2013 – August 2023
- Generation data from January 2015 – October 2023
- Surveyed cross sections from Poole Powerhouse to Big Bend Campground (collected by Stillwater)
- LiDAR Surface (provided by HDR from previous study)

AQ-5 Operations Modeling

Flow in LVC downstream of Powerhouse

Goal: capture and understand the magnitude, duration, and frequency of these optimization events



AQ-5 Operations Modeling

Methods

- Moving average algorithm used to capture sudden changes in flow in Lee Vining Creek
 - Using total flows (including spill) as they better represent effects in the creek versus just powerhouse flow
- Similar method used to capture peaks in generation data
- Calibration Parameters:
 - Length of Rolling Window
 - Standard Deviations above Rolling Mean
 - Minimum Magnitude
 - Maximum Duration

AQ-5 Operations Modeling

Calibration Methods

- Flow calibration parameters optimized to maximize both:
 - A) Percent of flow peaks occurring during generation peaking events
 - B) Total number of Flow Peaks
- Where we have both flow and generation data:
 - Captured 931 peaks in flow
 - 82% of them corresponded with a generation peak event

AQ-5 Operations Modeling

Comparing Operational Parameters

- Very few events meeting the criteria prior to 2015
 - The algorithm pulls out events that met the characteristics of hydro optimization even in normal operations
- T-tests on pre- and post- 2015
 - Magnitude: significant increase in size of events
 - Duration: length of the events stayed the same before and after

AQ-5 Operations Modeling

Hydro Optimization Intraday Model Results by Season

Duration (hours)

Season	2010–2014	2015–2023
Fall	5.1	3.7
Winter	3.3	3.0
Spring	2.5	4.0
Summer	3.4	5.5

Magnitude (cfs)

Season	2010–2014	2015–2023
Fall	41.6	67.4
Winter	19.7	60.8
Spring	26.8	65.50
Summer	11.7	66.8

Frequency (# of events per season)

Season	2010–2014	2015–2023
Fall	1	28.1
Winter	1.4	37.8
Spring	1.6	21.9
Summer	0.4	18.8

AQ-5 Operations Modeling

Hydro Optimization Intraday Model Results by Water Year Type

Duration (hours)

Season	2010-2014	2015-2023
Dry	4.5	4.3
Normal	4.1	3.9
Wet	1.9	4.1

Magnitude (cfs)

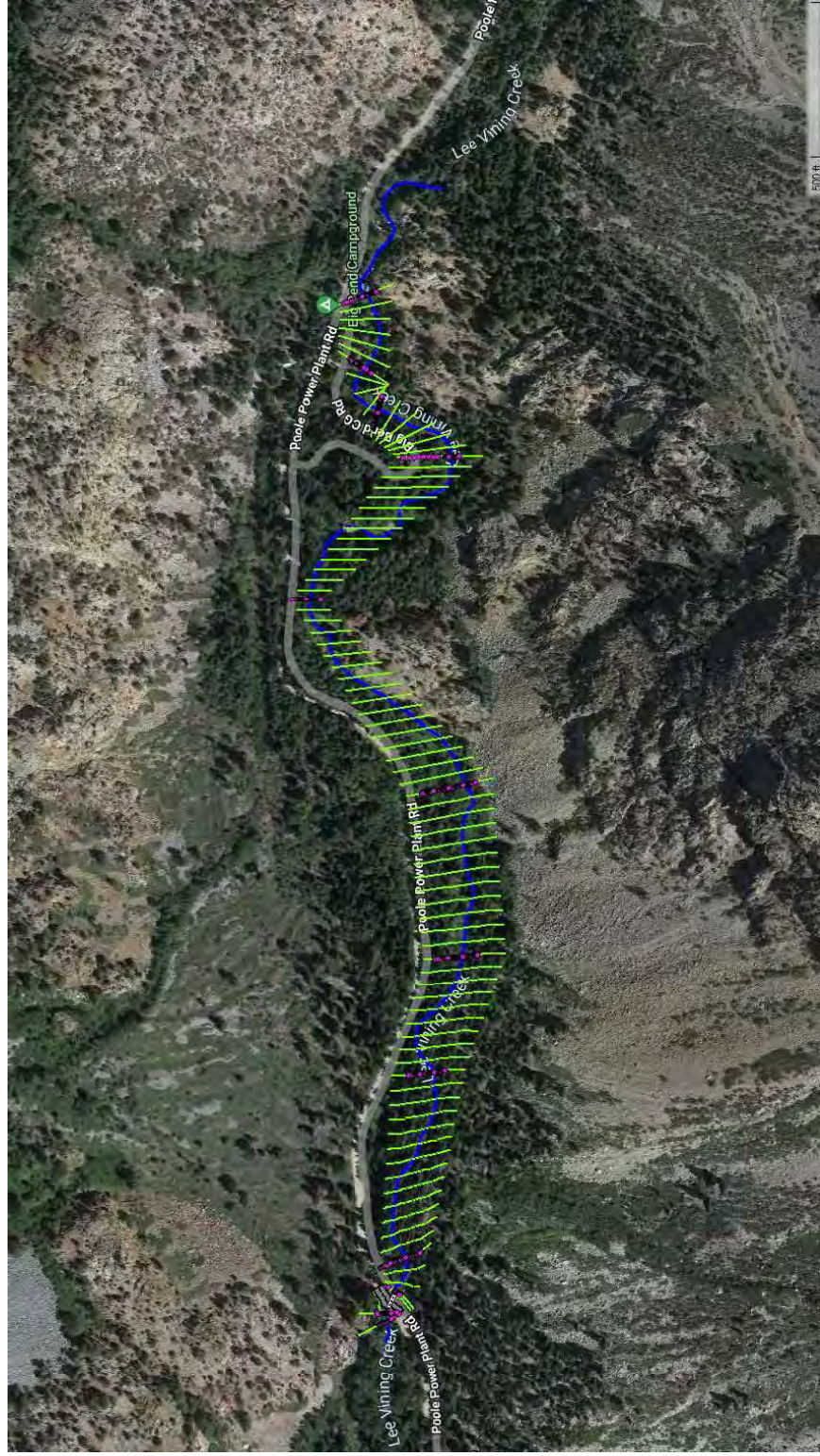
Season	2010-2014	2015-2023
Dry	29.6	61.4
Normal	19.8	65.2
Wet	28.7	56.8

Frequency (# of events per water year)

Season	2010-2014	2015-2023
Dry	3.3	79.3
Normal	2.5	153.5
Wet	8	67

AQ-5 Operations Modeling

Stage/Discharge Relationship in Lee Vining Creek



AQ-5 Operations Modeling

Hydraulic Model

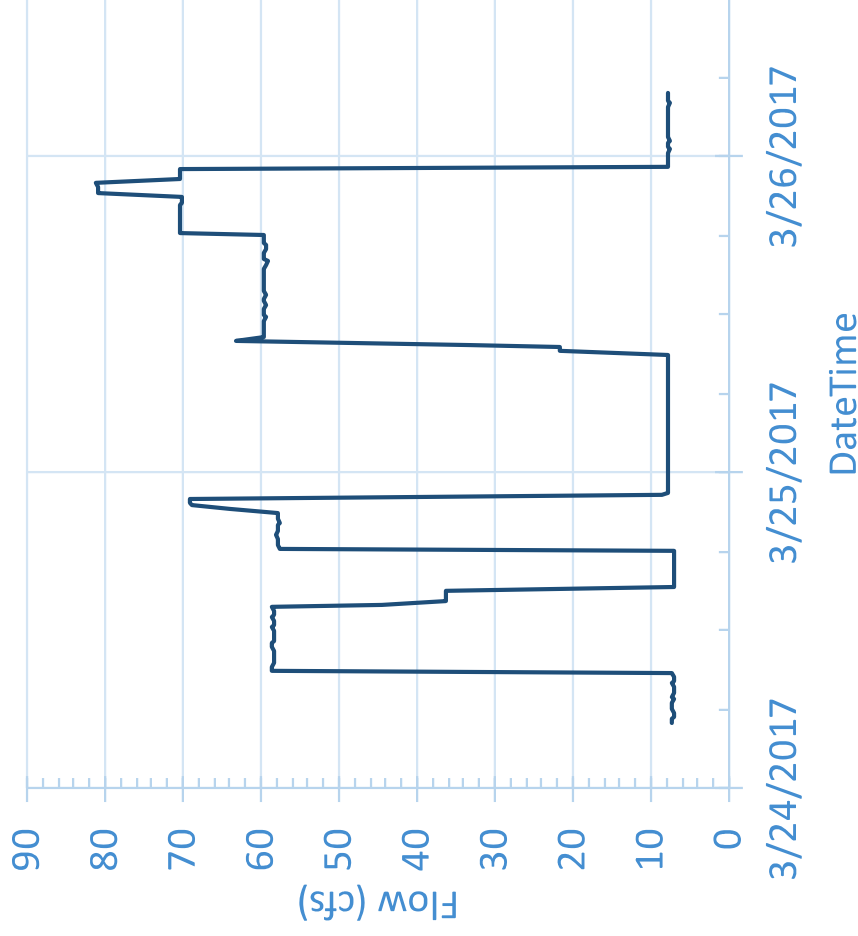
- Uses surveyed cross sections and LiDAR data from HDR

HEC-RAS River Station (RS)	Distance downstream of culvert on Power Plant Road (ft)
4616	128
3967	777
2946	1,798
1321	3,423
834	3,910

AQ-5 Operations Modeling

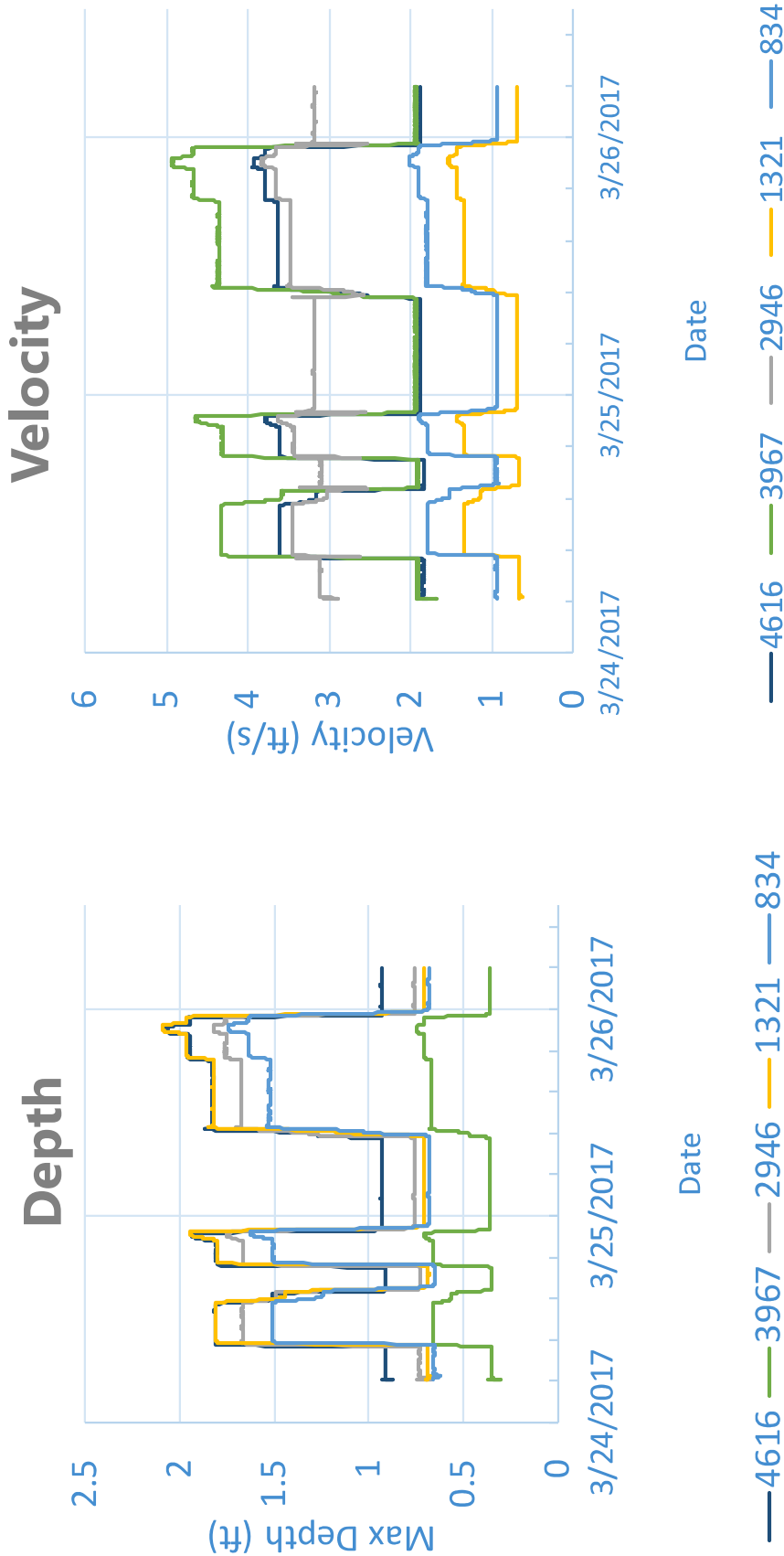
Hydraulic Model – March 2017 Event

- Modeled three optimization events over a 2-day span in March 2017
- Can compare velocities and depths during events
- Can calculate average event travel times downstream

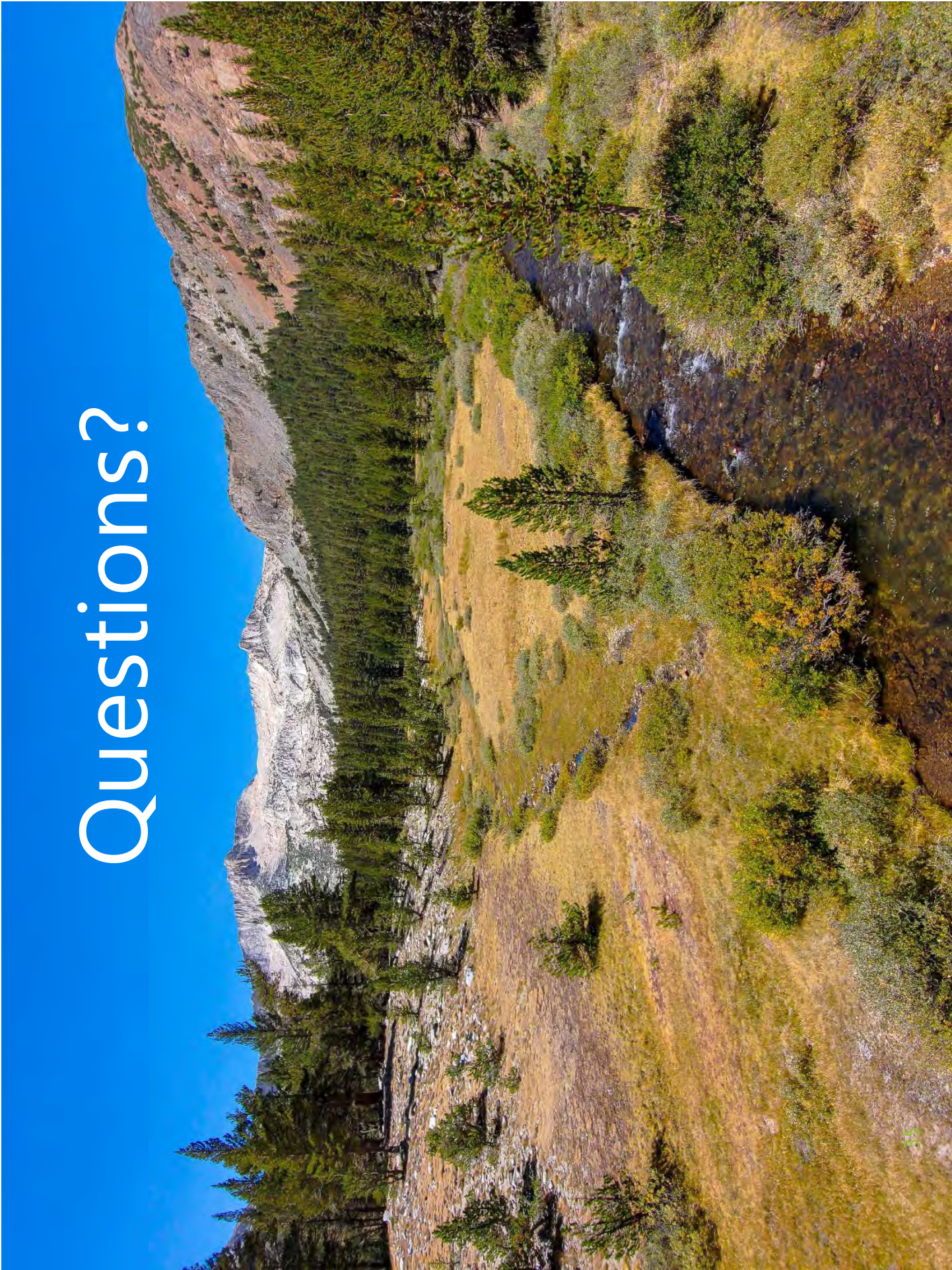


AQ-5 Operations Modeling

Depth and Velocity Results



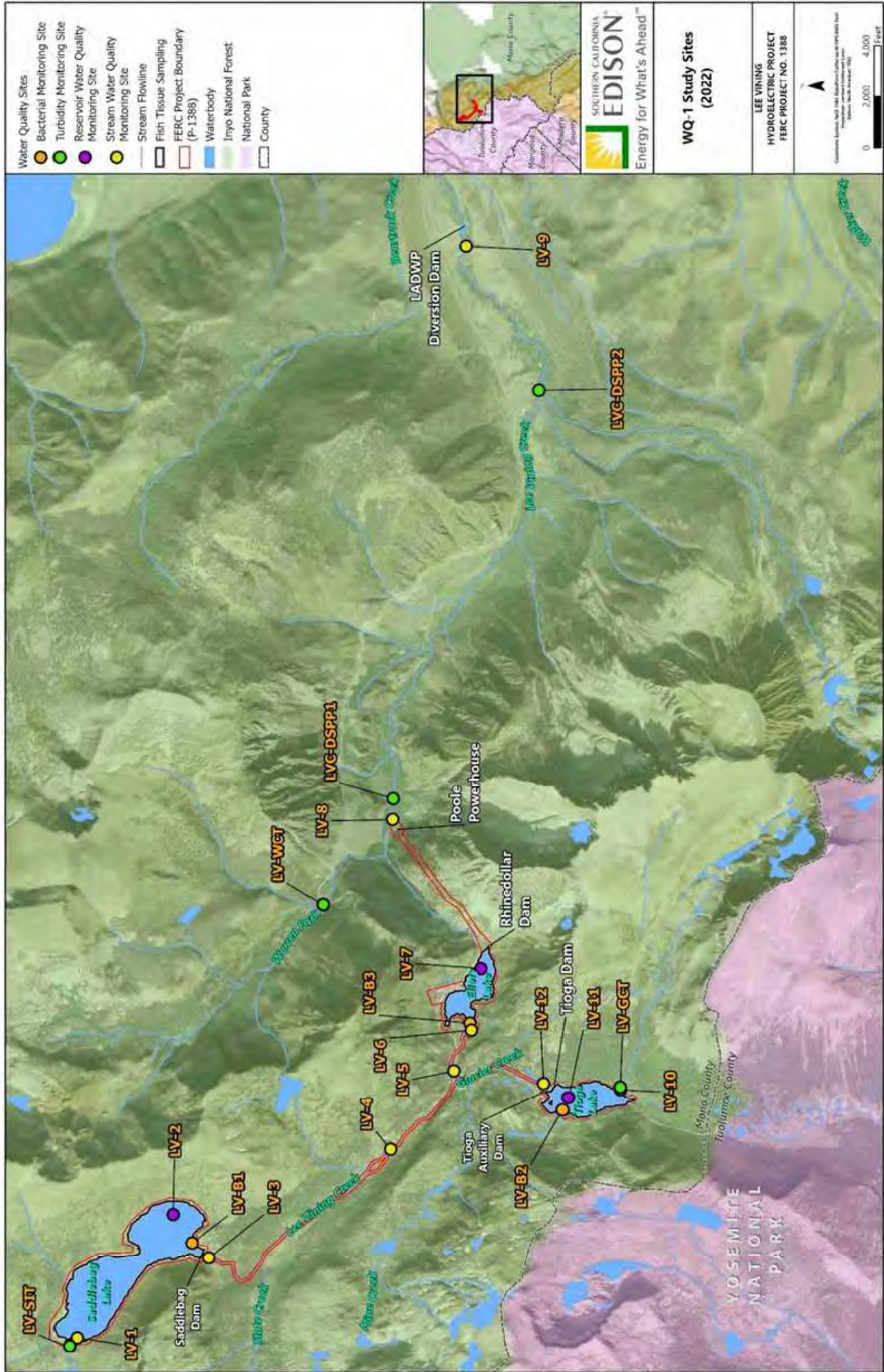
Questions?



WQ-1 Stream and Reservoir Water Quality

- Surveys conducted in 2022 and 2023
- Goals and Objectives
 - Characterize water quality in Project reservoirs and Project-affected stream reaches
 - Assess consistency of with water quality objectives in the Water Quality Control Plan for the Lahontan Region

WQ-1 Study Area



WQ-1 Stream and Reservoir Water Quality

Study Component	2022	2023
Stream and reservoir sampling - <i>in situ</i> , water chemistry, and nutrients	✓	✓
Bacterial sampling	✓	✓
Turbidity monitoring downstream of Poole Powerhouse	✓ (summer–winter)	✓ (winter–fall)
Turbidity monitoring in tributaries	No	✓
Fish tissue mercury sampling	✓	No

WQ-1 Stream and Reservoir Water Quality

Modifications to Methods in 2022

- *In situ* water quality monitoring – ice cover on Saddlebag Lake during spring prevented collection of depth profiles at maximum depth, turbidity was not measured during summer (probe malfunction)
- Saddlebag Lake and Tioga Lake chemistry – sampling limited to surface water during summer
- Continuous Turbidity monitoring below Poole Powerhouse – logger installation delayed from spring to summer, loggers were moved to new locations in October 2022
- Mercury testing of edible sized fish – 8 of 9 rainbow trout and 9 of 9 brook trout were caught at Tioga Lake

WQ-1 Stream and Reservoir Water Quality

- Modifications to Methods in 2023
 - Access limitations due to near record snow accumulation
 - Spring sampling event delayed to July, Saddlebag Lake, Tioga Lake, and two sites on Lee Vining Creek (LV-1 and LV-3) remained inaccessible
 - Added background turbidity sampling for Lee Vining Creek and Glacier Creek watersheds
 - Added surface water *E. coli* sampling to assess compliance with the June 2023 amendment of the Basin Plan water quality objective for bacteria.

WQ-1 Stream and Reservoir Water Quality

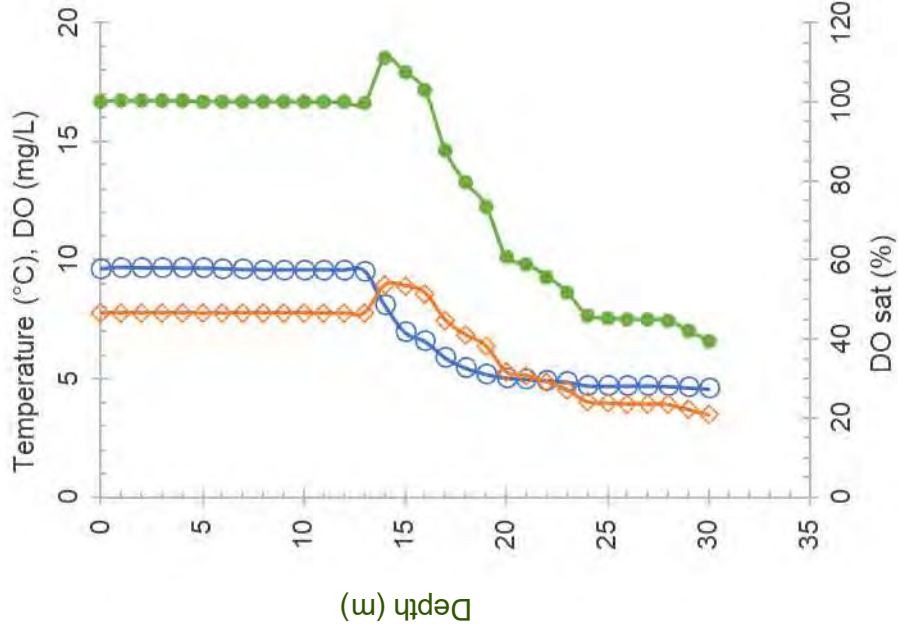
- Data / Results (*In situ*)

Summary of 2022 and 2023 In Situ Results					
Analyte	Units	Upper Lee Vining Ck.	Lower Lee Vining Ck.	Glacier Creek	Reservoirs
Temperature	°C	1.9–18.4	4.8–16.8	2.5–16.0	4.2–16.8
Specific conductance	µS/cm	7–39	17–59	16–58	16–42
pH	s.u.	6–8.7	6.3–7.9	6.5–8.3	5.1–8
DO saturation	%	99–116	96–107	96–113	0–124
DO	mg/L	6.7–10.9	7.5–9.9	6.9–10.7	0.01–9.9
Turbidity	NTU	0.3–1.1	0.3–1.7	0.2–0.6	0–1.4

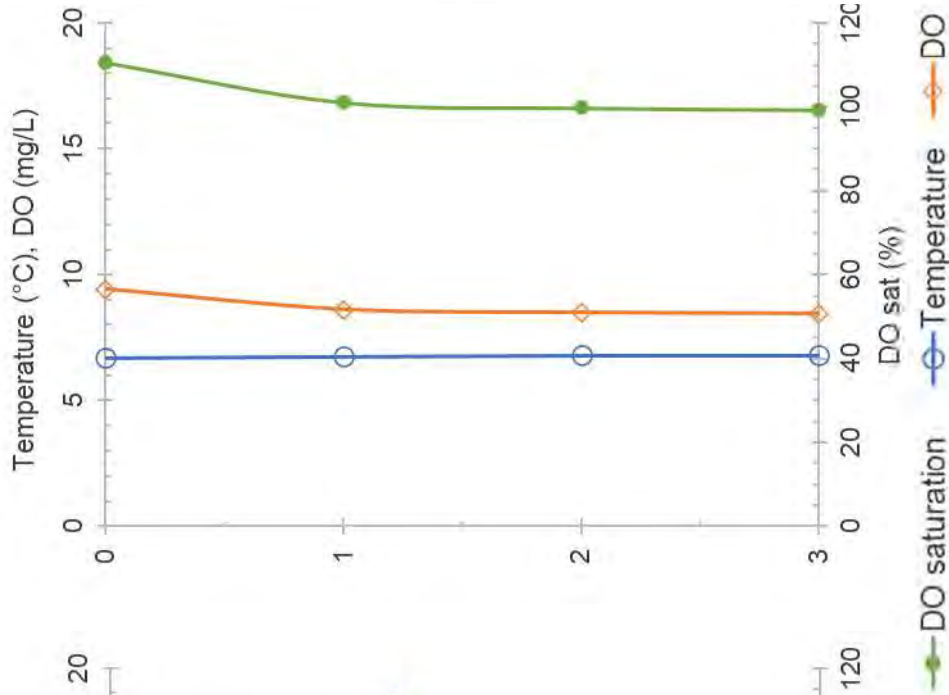
WQ-1 Stream and Reservoir In situ Profiles

– Data / Results (Reservoir *In situ* Profiles)

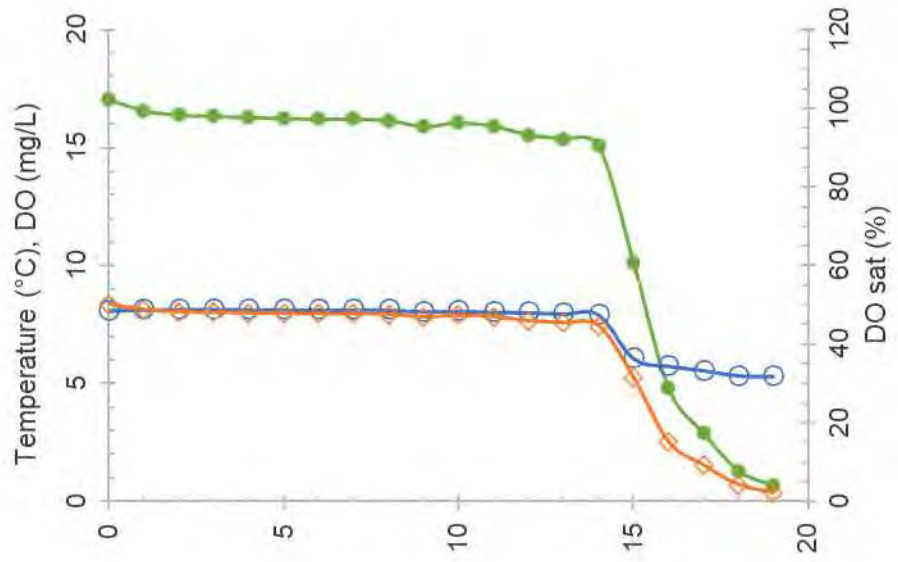
Saddlebag Lake



Ellery Lake



Tioga Lake



WQ-1 Stream and Reservoir Water Quality

– Data / Results (Analytical Chemistry)

Summary of 2022 and 2023 Analytical Results						
Analyte	Units	Upper Lee Vining Ck.	Lower Lee Vining Ck.	Glacier Creek	Reservoirs	
TDS	mg/L	<5–28	<5–44	12–43	8–39	
TSS	mg/L	<2–2.0	<2–4.5	<2–4.0	<2–6.0	
Total ammonia	mg/L	<0.025- 0.073	<0.025 - 0.044	<0.025 - 0.054	<0.025 - 0.12	
Nitrate-nitrite	mg/L	<0.055-0.1	<0.055 - 0.13	<0.055 - 0.24	<0.055 - 0.087	
TKN	mg/L	<0.040 - 0.46	<0.040 - 0.37	<0.040 - 0.32	<0.040 - 0.37	
Orthophosphate	mg/L	<0.0051 - 0.051	<0.0051 - 0.027	<0.0051 - 0.034	<0.0051 - 0.035	
Total phosphorus	mg/L	<0.023	<0.023	<0.023	<0.023	

WQ-1 Stream and Reservoir Water Quality

Data / Results (Bacteria)

- 2022
 - Fecal coliform $\leq 2-20$ cfu/100 mL except for one date*
 - High levels (49–350 MPN/100 mL) observed at all sites on Sept 15, 2022
- 2023
 - Fecal coliform were ≤ 2 cfu/100 mL
 - *E. coli* levels were < 1.8 MPN/100 mL

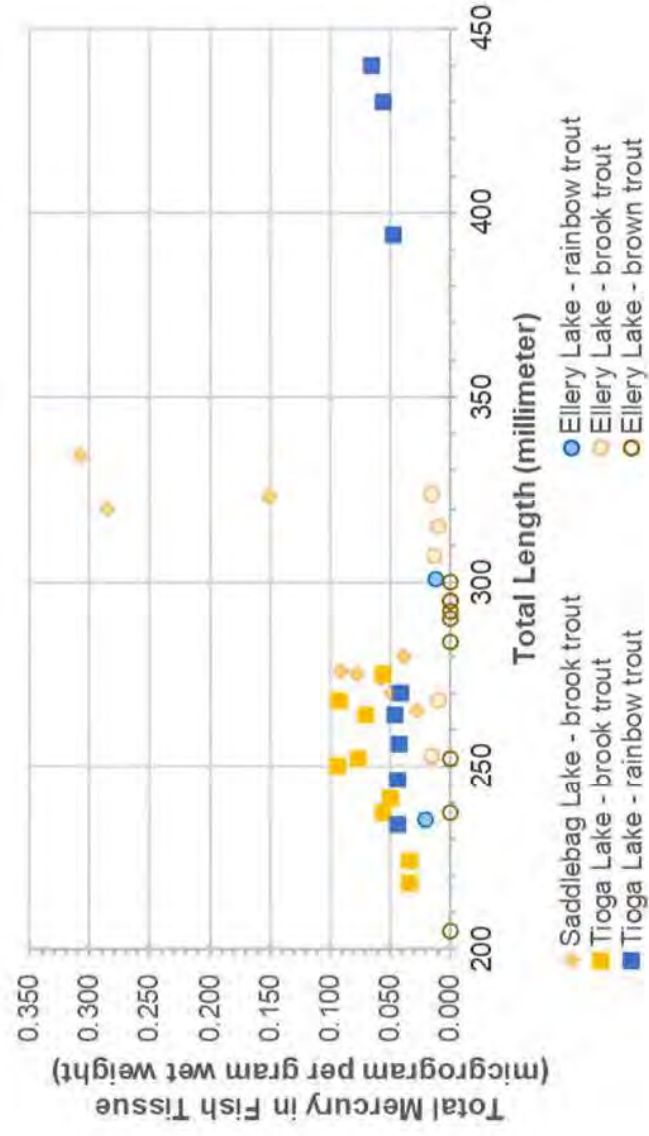


WQ-1 Stream and Reservoir Water Quality

- Data / Results (Lower Lee Vining Creek Turbidity)
 - Turbidity downstream of Poole Powerhouse was seasonally variable (0 – 500 NTU)
 - Small increases observed during hydro-resource optimization events monitored during July 2022
 - LVC-DSPP1
 - Baseline turbidity = ~0.5 to 1 NTU
 - Hydro-resource optimization = ~2 NTU
 - LVC-DSPP2
 - Baseline turbidity = ~0.5 to 1.5 NTU
 - Hydro-resource optimization = ~ 3.5 NTU
 - The observed increases in turbidity within the range of natural variability observed during the 2022–2023

WQ-1 Stream and Reservoir Water Quality

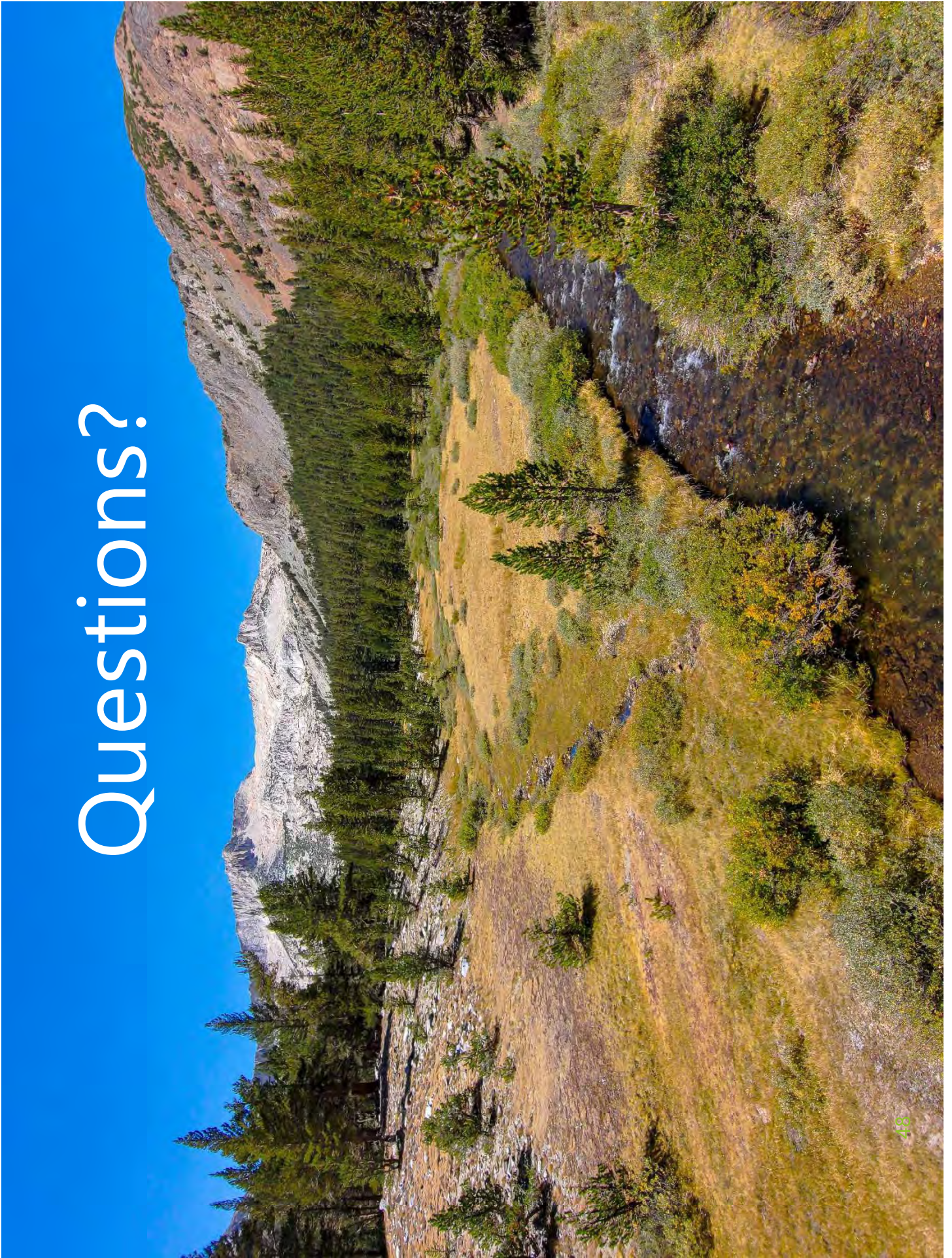
- Data / Results (Mercury in Fish Tissue)
 - Concentrations were lowest in fish from Ellery Lake and greatest in fish from Saddlebag Lake
 - The highest concentrations were measured in large brook trout captured in Tioga and Saddlebag lakes



WQ-1 Stream and Reservoir Water Quality

- Discussion
 - Water Quality Results support existing Beneficial Uses
 - Other than naturally occurring variations in riverine and reservoir water quality (e.g., DO, pH), results are consistent with applicable Basin Plan water quality objectives
 - Turbidity increases downstream of Poole Powerhouse during hydro-resource optimization within the range of natural variability observed during the 2022–2023
 - No indication that increased turbidity during hydro-resource optimization events is adversely affecting beneficial uses
 - Mercury in Fish Tissue
 - Summer/Fall hypoxia/anoxia conditions in Saddlebag Lake and Tioga Lake have the potential to methylate mercury but observed mercury levels are low.

Questions?

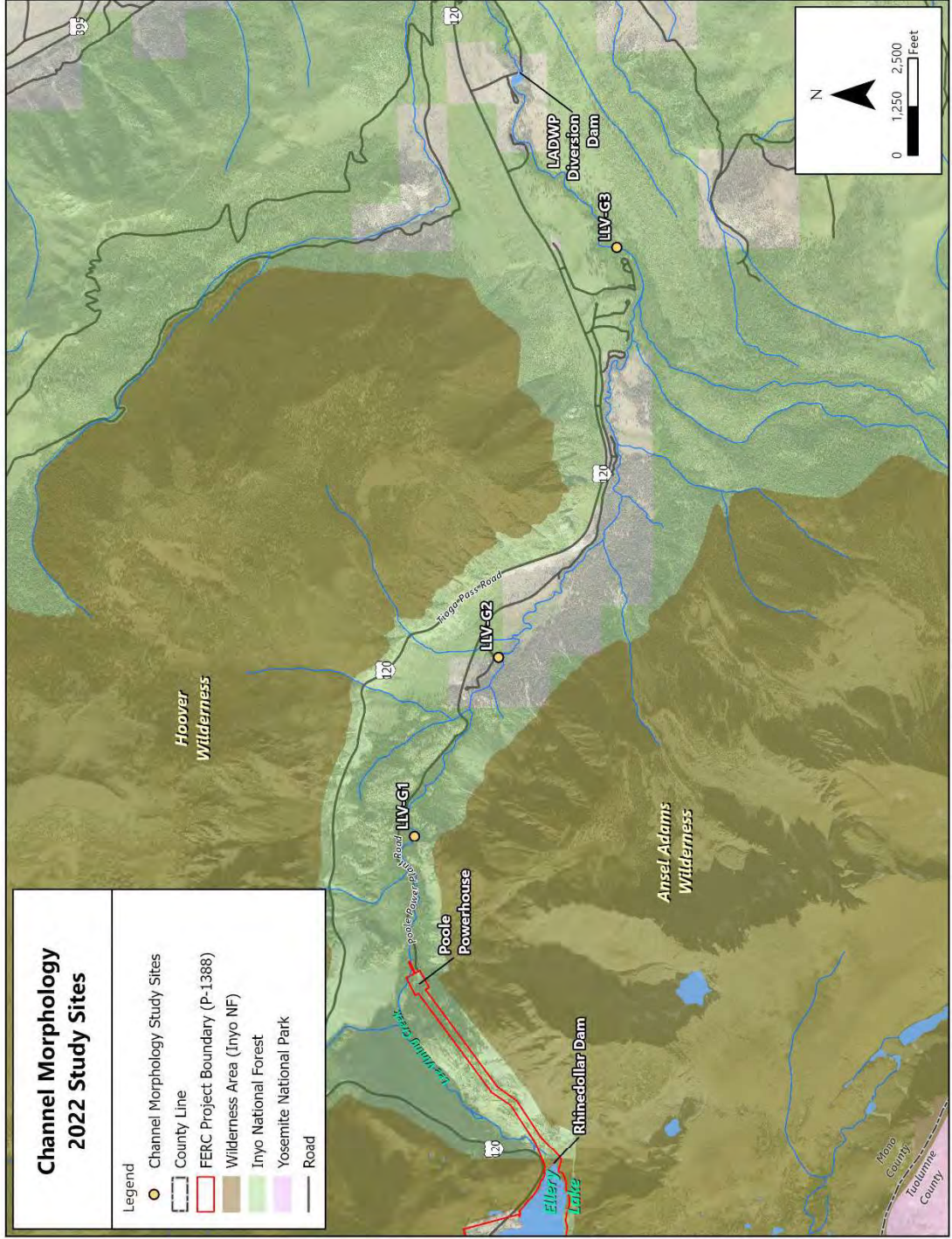


AQ-6 Lower Lee Vining Creek Channel Morphology

- Fieldwork conducted in June/October 2022 and September 2023
- Goals and Objectives
 - Assess the potential geomorphic effects of reducing sediment supply (coarse and fine) and altering sediment transport in lower Lee Vining Creek
 - Classify transport and response reaches in lower Lee Vining Creek using existing GIS data, maps, and other remote sensing imagery
 - Characterize channel morphology, fluvial processes, and coarse sediment (greater than 2 mm) transport rates at responsive study sites in lower Lee Vining Creek between Poole Powerhouse and LADWP Diversion Dam
- No modifications to methods

AQ-6 Lower Lee Vining Creek Channel Morphology

Study Area Map



AQ-6 Lower Lee Vining Creek Channel Morphology

- Data / Results
 - Site LLV-G1
 - Plane bed and pool-riffle morphology, highly confined, large woody debris (LWD) jams
 - Average slope 0.07%, bankfull widths 25-30 feet
 - Dominated by gravel (45%) and cobble (30%)
 - 25 of 76 tracer rocks recovered (33% recovery rate)
 - 24 tracer rocks traveled more than 1 foot, one did not move



AQ-6 Lower Lee Vining Creek Channel Morphology

- Site LLV-G2
 - Morphology transitions from cascade to pool-riffle and plane-bed, LWD jams
 - Average slope 1.3%, bankfull widths 25-45 feet
 - Dominated by gravel (41%) and boulder (31%)
 - 21 of 68 tracer rocks recovered (31% recovery rate)
 - 10 tracer rocks traveled more than 1 foot, 11 did not move



AQ-6 Lower Lee Vining Creek Channel Morphology

- Site LLV-G3
 - Broad glacially sculpted valley, LWD jams
 - Average slope 1.4%, bankfull widths 25-40 feet
 - Dominated by boulder (54%), cobble (27%), and gravel (19%)
 - 12 of 70 tracer rocks recovered (17% recovery rate)
 - 10 tracer rocks traveled more than 1 foot, two did not move



AQ-6 Lower Lee Vining Creek Channel Morphology

- Discussion
 - Ample wood and sediment supply observed in lower Lee Vining Creek
 - No evidence for winnowing of sand and finer gravels from the channel bed suggesting channel morphology in lower LVC is generally unaltered by Project operations

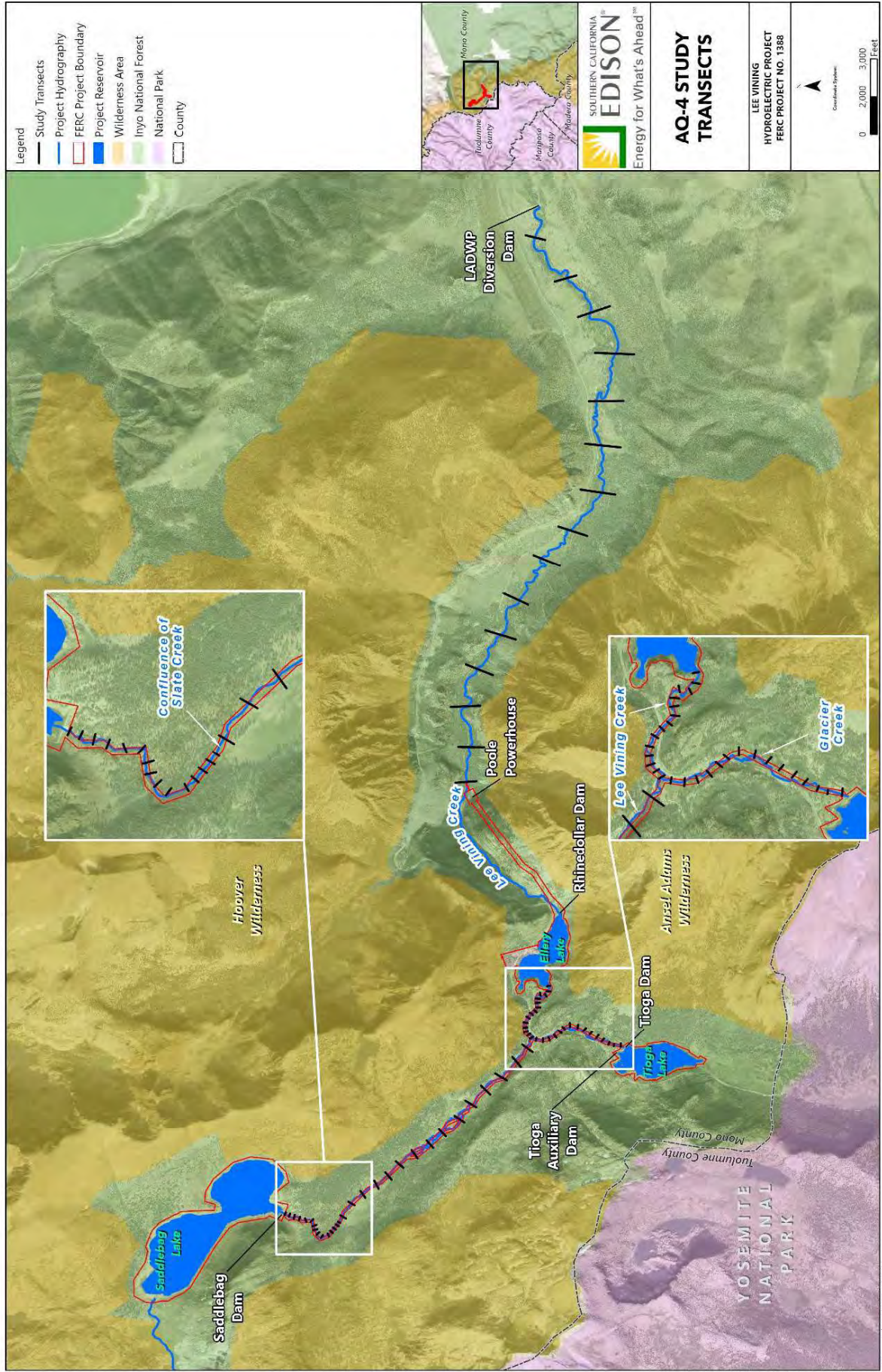
Questions?



AQ-4 Aquatic Invasive Plants

- Conducted in September 2023
- Goals and Objectives
 - Assess the extent and distribution of invasive aquatic plants and algae, with a particular focus on *Didymosphenia geminata* (Didymo), in stream reaches downstream of Project reservoirs
- Modifications to Methods
 - 1-m² quadrat used instead of 30-cm diameter hoop for sampling for larger more standardized area for assessment
 - Quadrats placed in right bank, left bank, and center instead of random locations to ensure representative sampling

Aquatic Invasive Plants (AQ-4) Study Sites

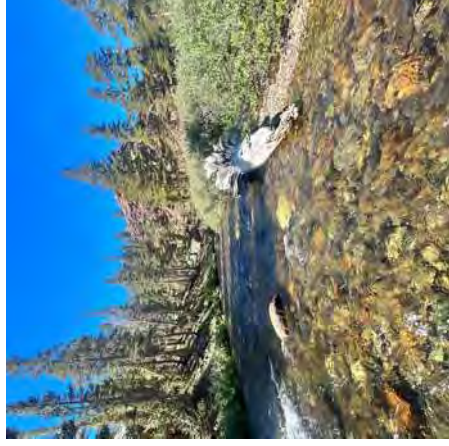


AQ-4 Aquatic Invasive Plants

- Data / Results
 - No invasive aquatic algae or plant species observed, including *Didymo*
 - One native species of algae (brittlewort [*Nitella* sp.]) observed in Glacier Creek downstream of Tioga Dam; two native species of aquatic moss (fountain moss [*Fontinalis* sp.] and splashzone moss [*Scouleria* sp.]) observed in LVC between Poole Powerhouse and LADWP Diversion Dam



Brittlewort algae (*Nitella* sp.)



Lee Vining Creek: upstream of Ellery Lake



Splashzone moss (*Scouleria* sp.) on rocks in Lee Vining Creek



Fountain moss (*Fontinalis* sp.)

AQ-4 Aquatic Invasive Plants

- Discussion
 - No invasive aquatic algae or plant species observed, including *Didymo*
 - Low (<0.5 mg/L) nitrogen and phosphorus during 2022 and 2023 WQ-1 sampling indicate low potential for algae
 - Project O&M activities unlikely to result in adverse effects associated with the introduction or spread of aquatic invasive plant and algae.



Questions?

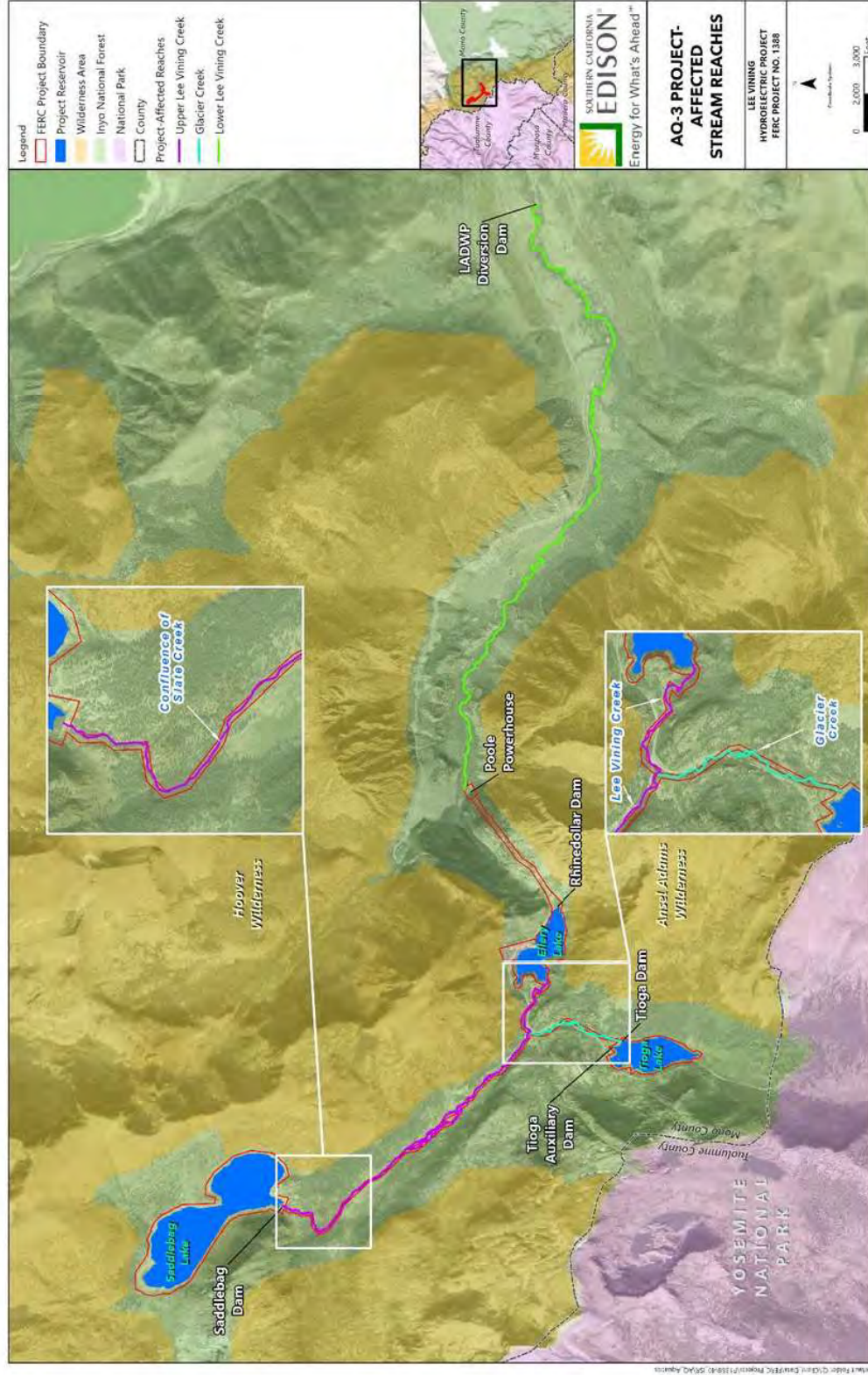


AQ-3 Aquatic Habitat Mapping and Sediment Characterization

- Conducted in August and September 2023
- Goals and Objectives
 - Determine habitat conditions for fisheries within Project-affected stream reaches and to characterize baseline conditions of channel substrate (e.g., fines and coarse sediments)
 - Characterize aquatic habitat types,
 - Characterize spawning gravel patches (i.e., coarse sediment), and
 - Determine potential habitat-related limiting factors for the trout population within Project-affected stream reaches.
- No modifications to methods

AQ-3 Aquatic Habitat Mapping and Sediment Characterization

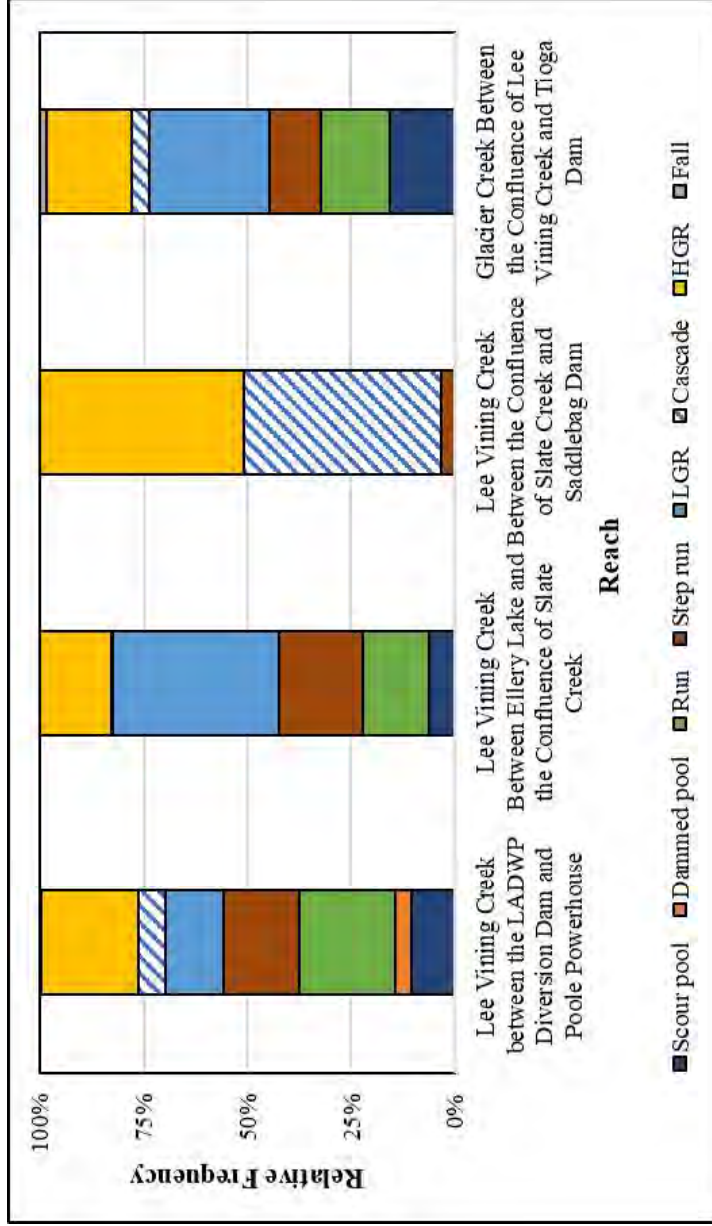
Study Area Map



AQ-3 Aquatic Habitat Mapping and Sediment Characterization

– Data / Results: Habitat conditions

- Reaches primarily cobble and boulder substrate



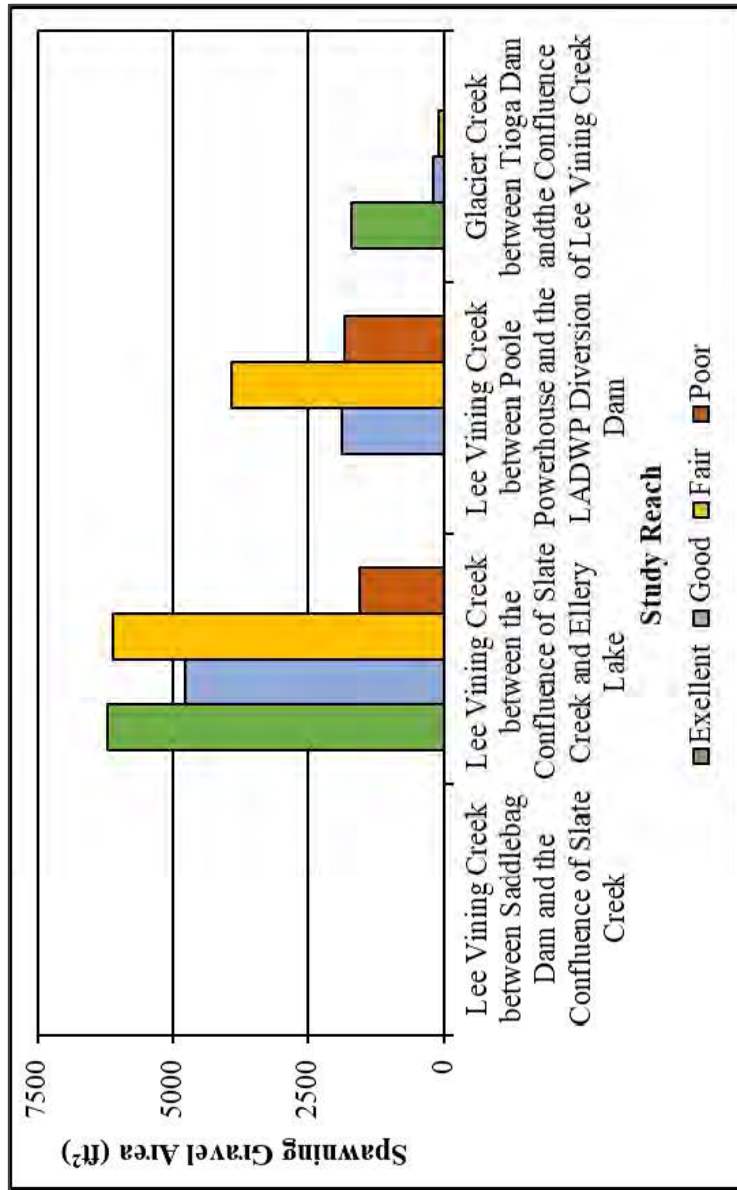
Lower Lee Vining Creek



Glacier Creek

AQ-3 Aquatic Habitat Mapping and Sediment Characterization

- Spawning gravel



ULVC between Slate and Ellery



ULVC between Saddlebag and Slate

AQ-3 Aquatic Habitat Mapping and Sediment Characterization

- Passage Barriers
 - Six barriers observed: natural bedrock waterfalls or cascades, culverts under Hwy 120



Lower Lee Vining Creek



Lower Lee Vining Creek



ULVC between Ellery and Slate



ULVC between Slate and Ellery



Glacier Creek



Glacier Creek

AQ-3 Aquatic Habitat Mapping and Sediment Characterization

- Discussion
 - Spawning gravel is prevalent in all Project-affected reaches, except between Saddlebag Dam and the confluence of Slate Creek
 - Aquatic Habitat quality within Project-affected stream reaches is generally excellent and provides adequate habitat for all life stages of trout
 - Project O&M activities unlikely to have adverse effects on spawning gravel and habitat quality in Project-affected stream reaches



Upper Lee Vining Creek



Lower Lee Vining Creek



Lower Lee Vining Creek

Questions?

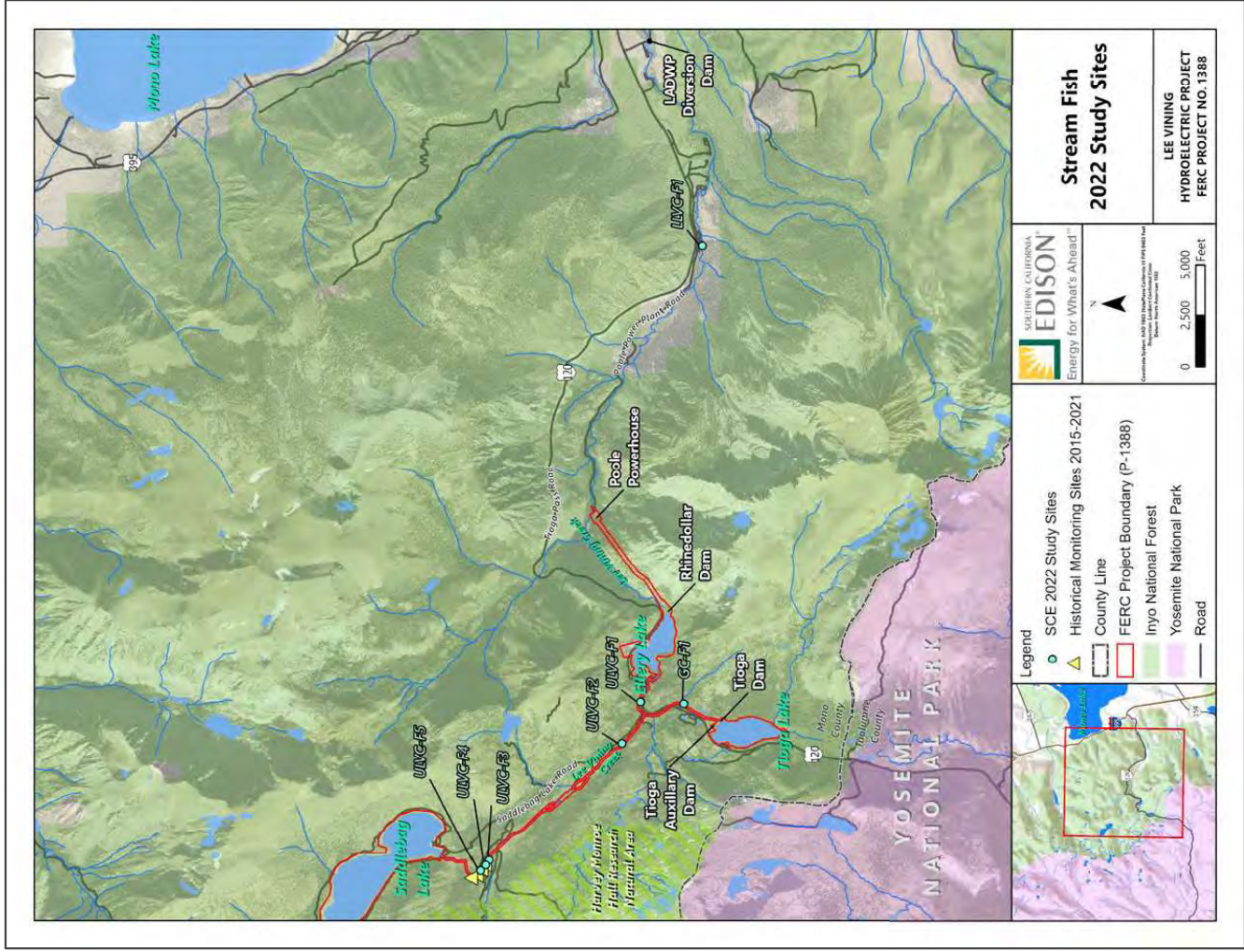


AQ-2 Stream Fish Populations

- Conducted in September 2022
- Goals and Objectives
 - Assess fish populations in Project-affected stream reaches downstream of Project reservoirs
- No modifications to methods

Stream Fish Populations (AQ-2)

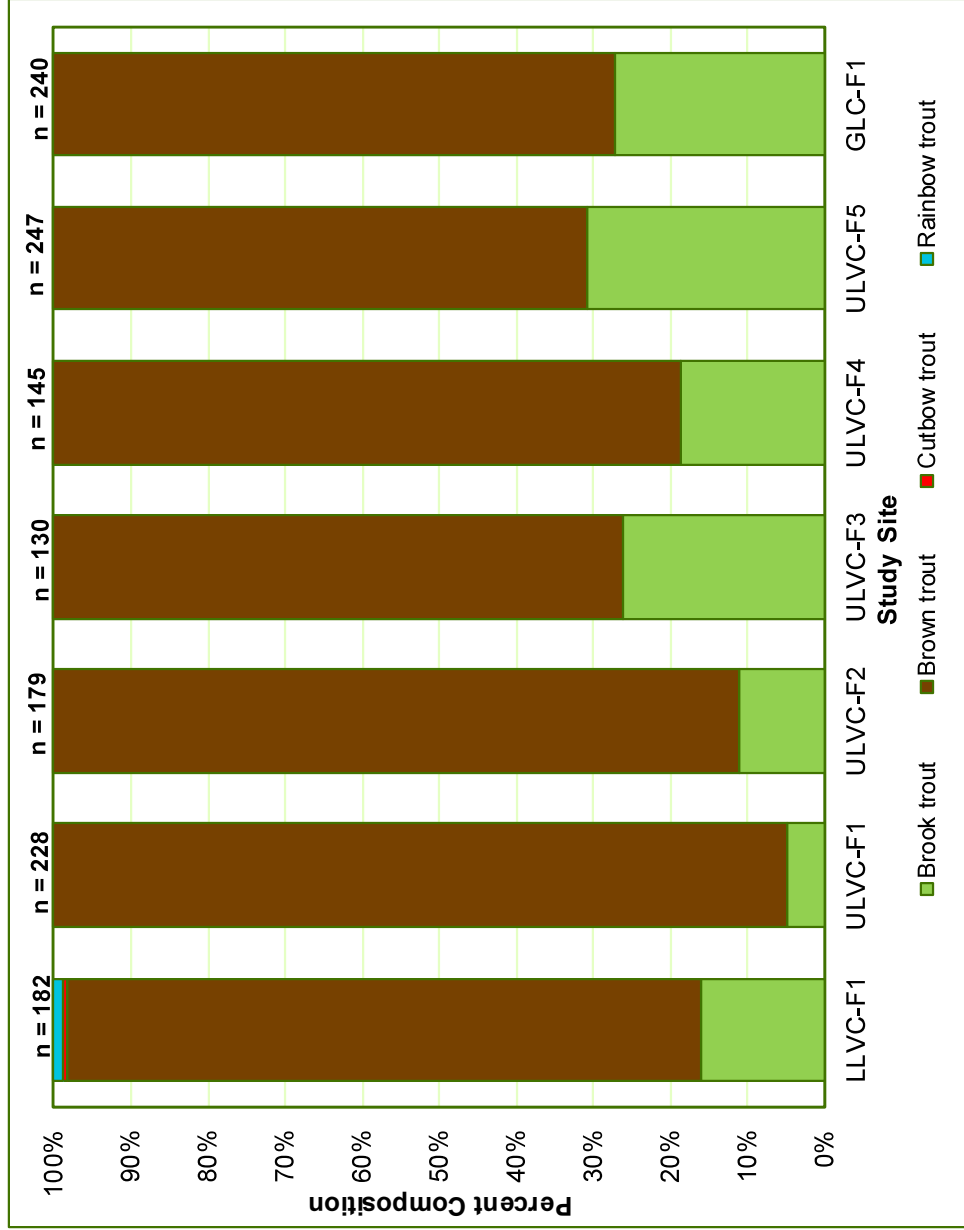
Study Area Map



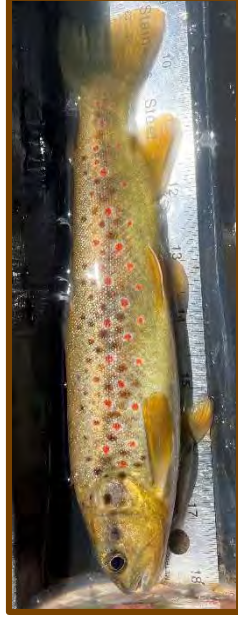
AQ-2 Stream Fish Populations

– Data / Results

- Fish species composition and distribution



Brook trout



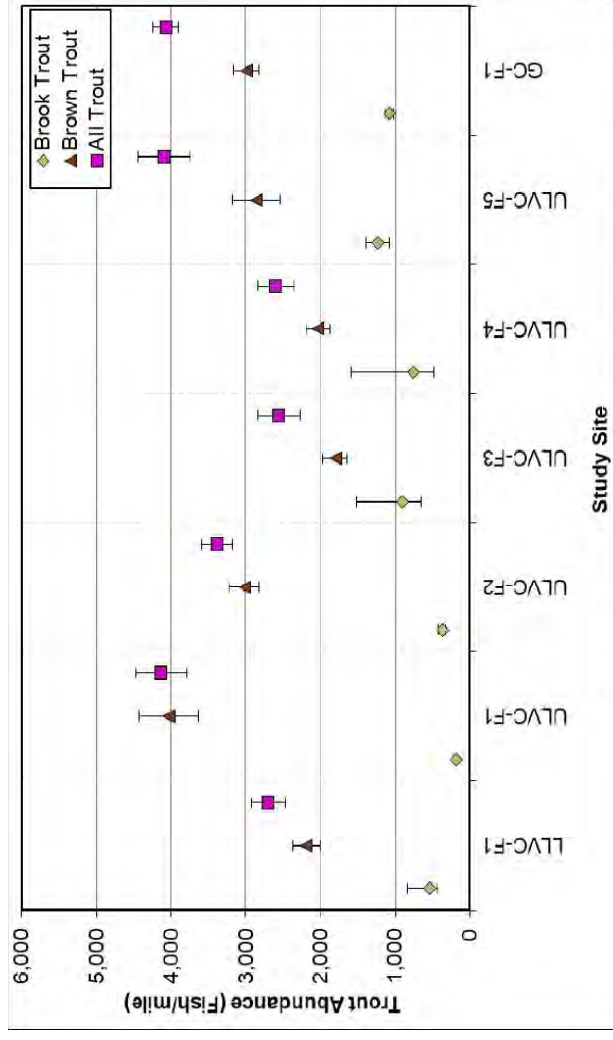
Brown trout



Rainbow trout

AQ-2 Stream Fish Populations

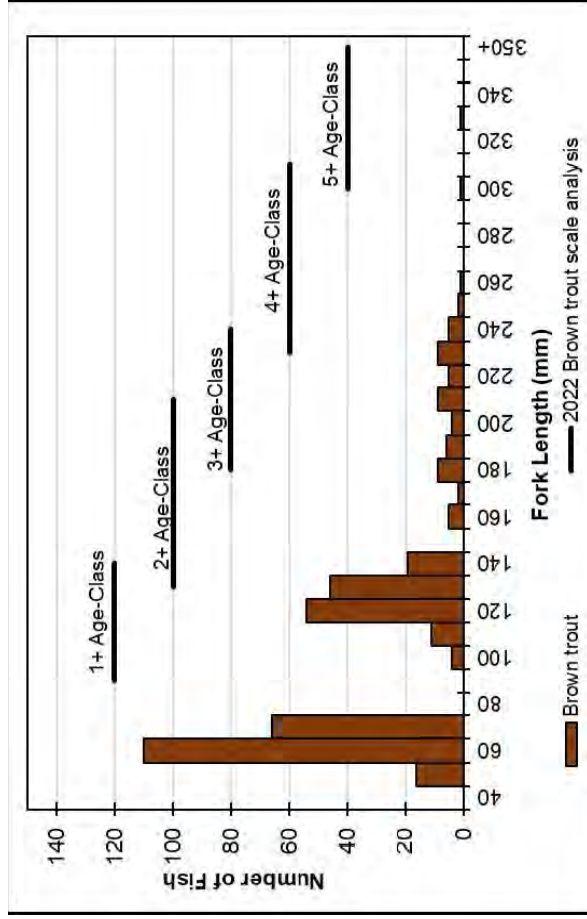
- Fish abundance, density, and biomass
- Abundance ranged from 2,256 to 4,136 fish/mile
- Density ranged from 0.19 and 0.69 trout/m²
- Biomass ranged between 4.85 and 25.63 g/m²



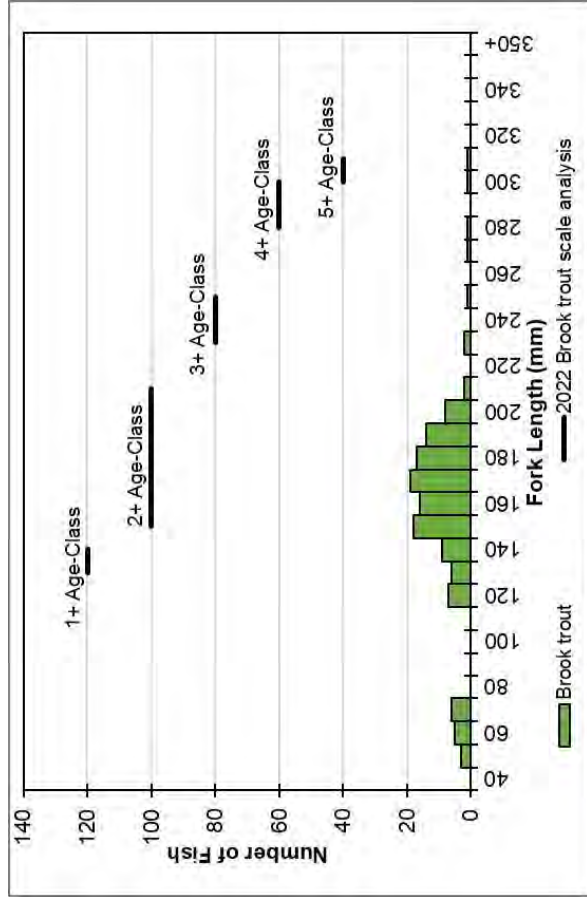
AQ-2 Stream Fish Populations

Age-class distribution

- Most sites had brook trout and brown trout ranging from young-of-year up about 5 years old



ULVC downstream of Saddlebag Lake: Brown trout



ULVC downstream of Saddlebag Lake: Brook trout

AQ-2 Stream Fish Populations

- Fish condition
- Mean condition factors ranged between 0.88 and 1.15, indicating healthy nutritional state
 - Brown and brook trout showed signs of reproductive activity (milting and redds)



Stream	Study Site	Trout Species	Mean K-value	
Lower Lee Vining Creek	LLVC-F1	Rainbow trout	1.15	
		Brook trout	0.99	
	ULVC-F1	Brown trout	1.09	
		Brook trout	0.96	
		Brown trout	1.05	
Upper Lee Vining Creek	ULVC-F2	Brook trout	1.09	
		Brown trout	1.07	
	ULVC-F3	Brook trout	1.04	
		ULVC-F4	Brown trout	1.08
			Brook trout	0.95
Glacier Creek	ULVC-F5	Brown trout	1.08	
		Brook trout	0.97	
	GC-F1	Brown trout	1.08	
		Brook trout	1.04	
		Brown trout	1.10	

AQ-2 Stream Fish Populations

- Discussion
 - Population comparable to historical estimates and other similarly sized Sierra streams
 - Age-class distribution suggest natural recruitment of brown and brook trout
 - Healthy nutritional state
 - Project O&M activities unlikely to have adverse effects on stream fish populations



Questions?

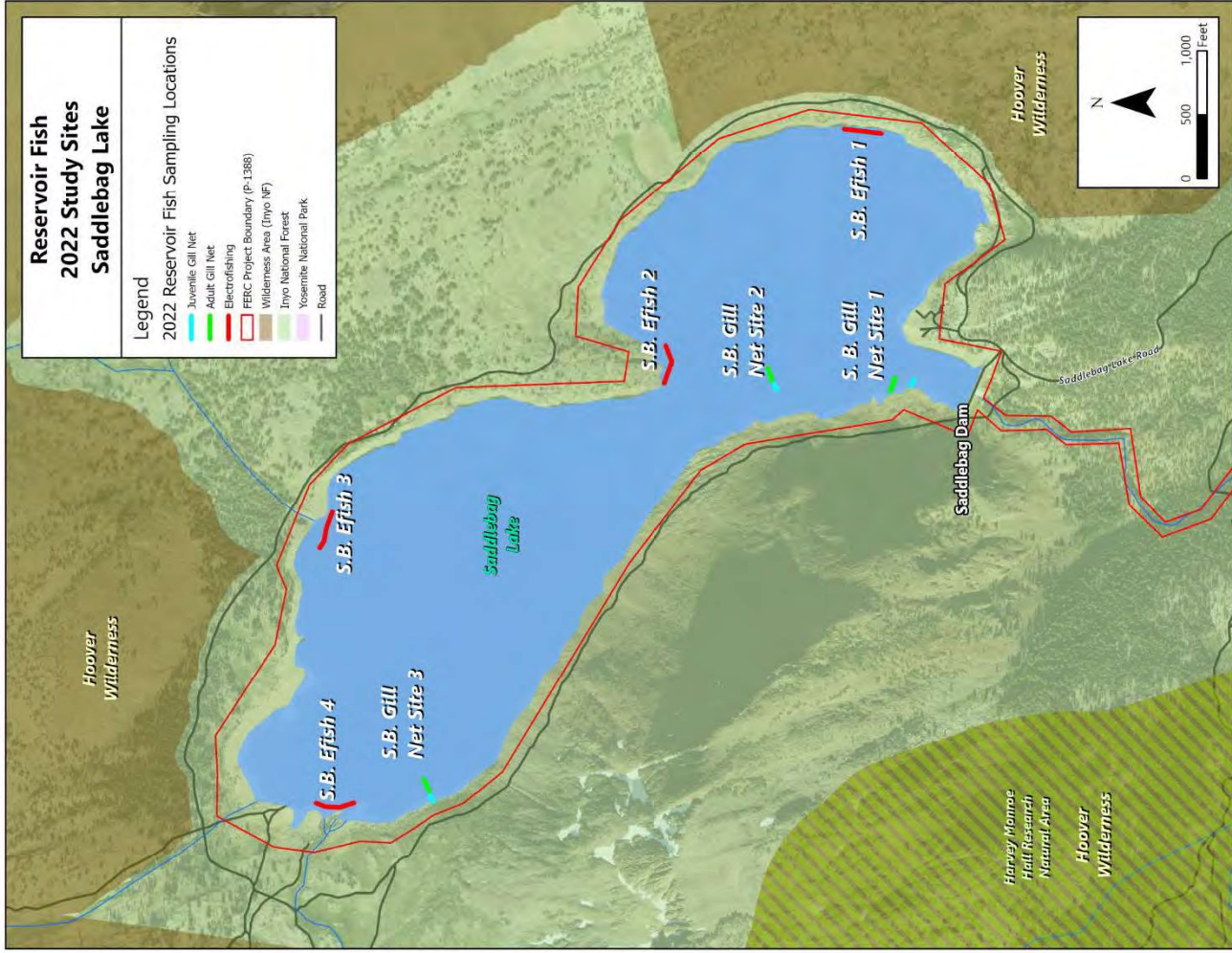


AQ-1 Reservoir Fish Populations

- Conducted in August 2022
- Goals and Objectives
 - To document the current fish populations within Project reservoirs
 - Obtain information on reservoir fish populations where background data are lacking
 - A subset of fish captured during this study was collected for mercury bioaccumulation lab analysis for the Study WQ-1 Reservoir and Stream Water Quality.
- Modifications to Methods
 - Gill net soak times during the night sampling period were decreased from 8 hours to 4 hours for all gill net locations at Tioga Lake and at two gill net locations at Saddlebag Lake, after fish mortalities were observed on the first night at Ellery Lake

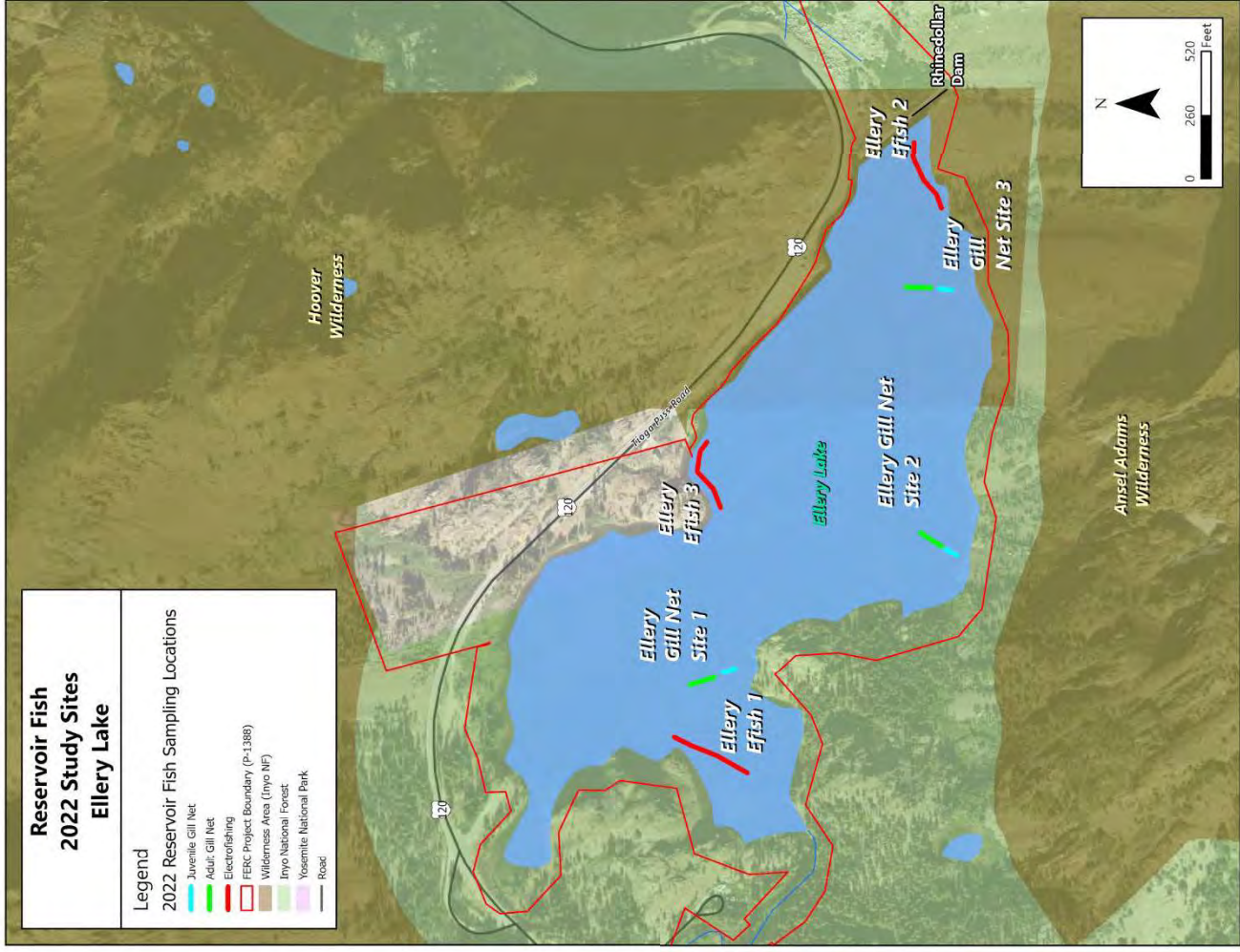
Reservoir Fish Populations (AQ-1)

Reservoir Fish 2022 Study Sites—Saddlebag Lake



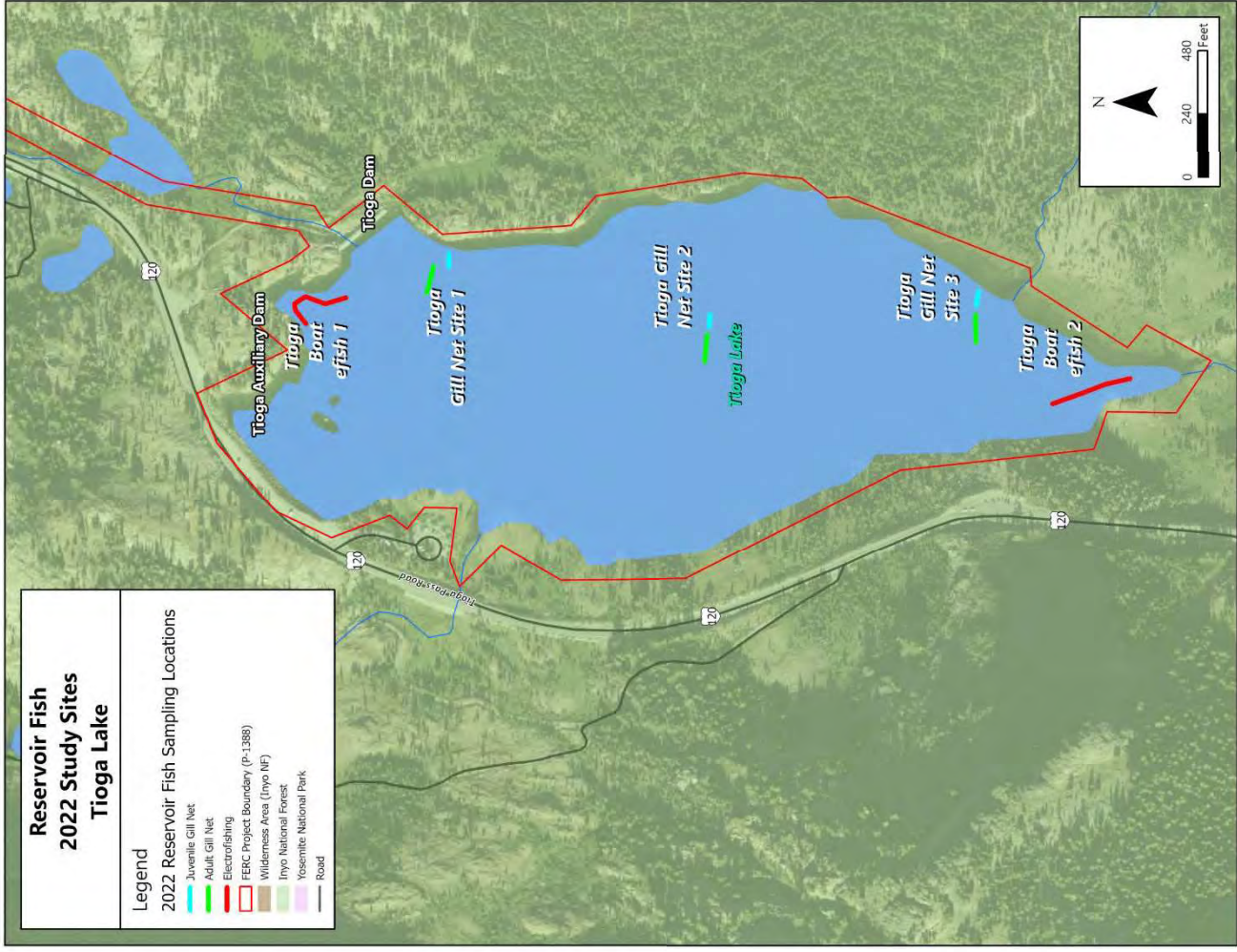
Reservoir Fish Populations (AQ-1)

Reservoir Fish 2022 Study Sites—Ellery Lake



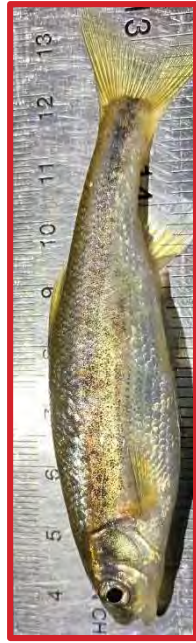
Reservoir Fish Populations (AQ-1)

Reservoir Fish 2022 Study Sites—Tioga Lake

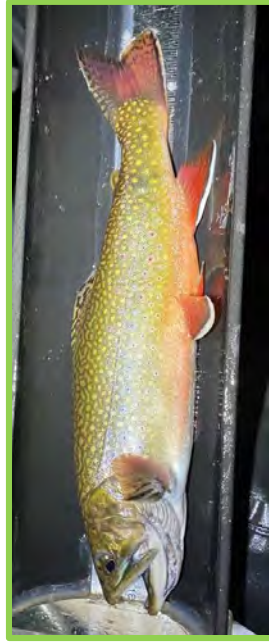


AQ-1 Reservoir Fish Populations

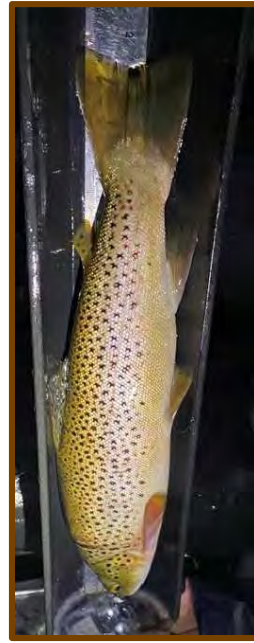
- Data / Results
- Fish species composition



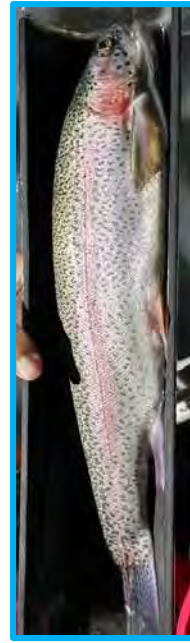
Lahontan redbreast



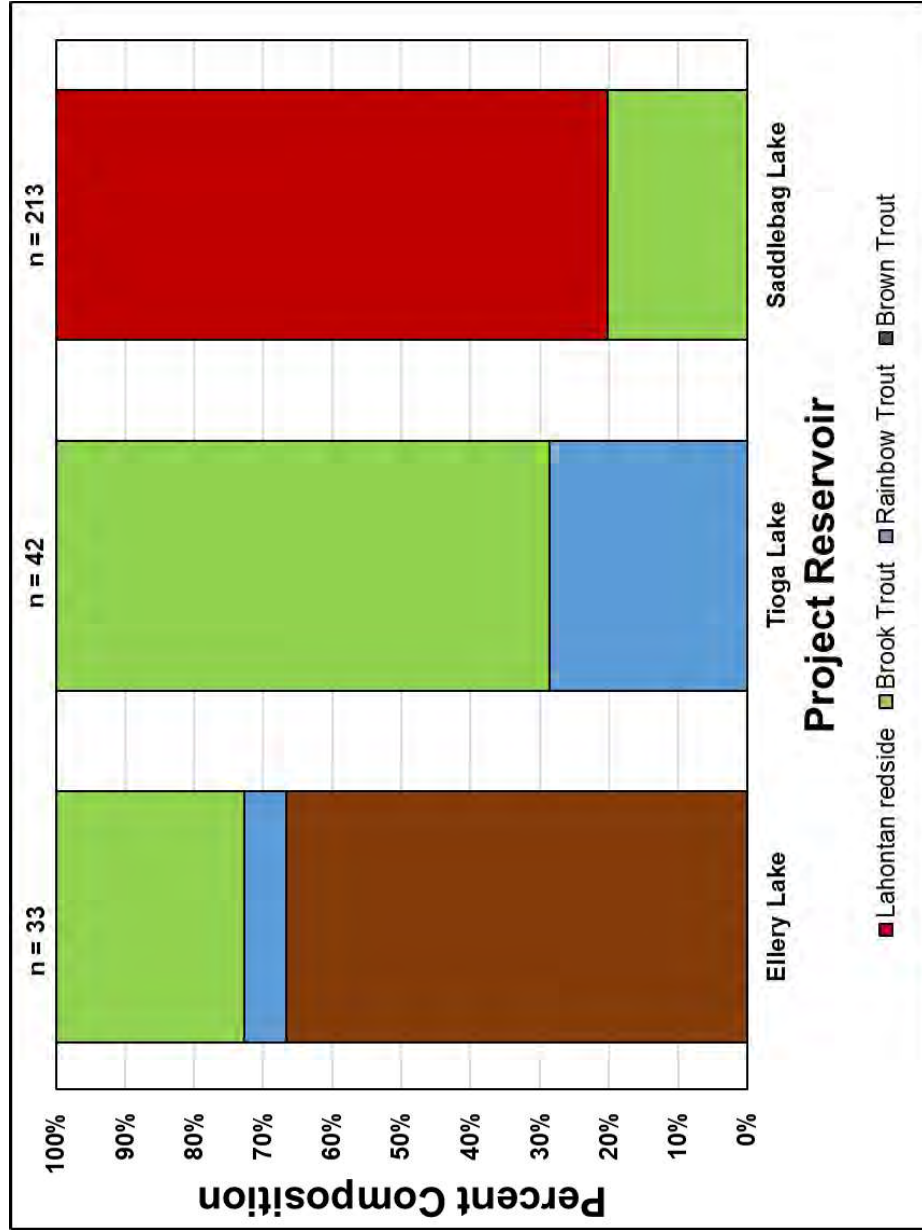
Brook trout



Brown trout



Rainbow trout



AQ-1 Reservoir Fish Populations

- Age-class distribution
 - Scales aged from 71 trout
 - Brook and brown trout were young-of-year to 5 years old
 - Rainbow trout were 3-6 years old
- Fish condition
 - Mean condition factors for trout ranged from 0.92 to 1.28 indicating a healthy nutritional state
- Site conditions
 - Water temperatures were cool, dissolved oxygen levels were high, little variation between Project reservoirs



AQ-1 Reservoir Fish Populations

- Discussion
 - Age-class distribution suggests natural recruitment of brown and brook trout
 - Low abundance of rainbow trout is likely due to lack of planting by CDFW in 2022
 - Healthy nutritional state
 - Project O&M activities unlikely to have adverse effects on reservoir fish populations



Questions?



Terrestrial Resources

- General Botanical Resources Survey (TERR-1)
- General Wildlife Resources Survey (TERR-2)

TERR-1 Botanical Resources

- Conducted in July and August in 2022 and 2023
- Goals and Objectives
 - Ground-truth the existing USFS vegetation map, including identification of any sensitive natural communities
 - Document the presence of species listed by the federal and/or state Endangered Species Acts or proposed for listing, e.g., whitebark pine
 - Document the presence of other special-status plants including species with a California Rare Plant Rank (CRPR) of 1 or 2 and USFS Species of Conservation Concern
 - Document non-native, invasive plants identified in the Inyo National Forest Invasive Plant Inventory Database (NRM – TESP/IS, 2018) and on the California Invasive Plant Council (Cal-IPC) Inventory (Cal-IPC, 2020);
 - Incorporate results of the riparian monitoring study undertaken as part of the existing license (Read, 2004, 2012, 2017, 2022)
 - Perform a focused study of selected riparian habitat areas using Normalized Difference Vegetation Index (NDVI) to
 - Compare “test” reaches and “control” reaches and
 - To assess whether or not there have been changes resulting from hydro-resource optimization.

TERR-1 Botanical Resources

- Modifications to Methods
 - Number of NDVI study sites increased to 8 instead of 2
 - Study Area expanded in select locations due to request of USFS
 - Study Area decreased in select locations due to access limitations/topography
 - Some survey areas were inaccessible in 2023 due to higher water levels or snowpack
 - Two rounds of surveys conducted in 2022 and 2023 instead of reference population checks



TERR-1 Botanical Resources

- Data / Results
 - Vegetation mapping
 - 13 vegetation communities and other areas identified including areas dominated by grasses and forbs, conifers (including whitebark pine), quaking aspen, wet meadow, and willows.



TERR-1 Botanical Resources

- Data / Results
 - Special-status plant species
 - Whitebark pine (Federally Threatened) – observed at Rhinedollar Dam and Penstock Trail, Saddlebag Dam and Campgrounds (CGs), Ellery Lake CG, Sawmill CG, Tioga Dam and Auxiliary Dam, and Tioga Lake CG
 - Mountain bent grass (CRPR 2B.3) – observed at Saddlebag Dam CG
 - Black cottonwood (riparian species important to stakeholders) – observed near Poole Powerhouse



TERR-1 Botanical Resources

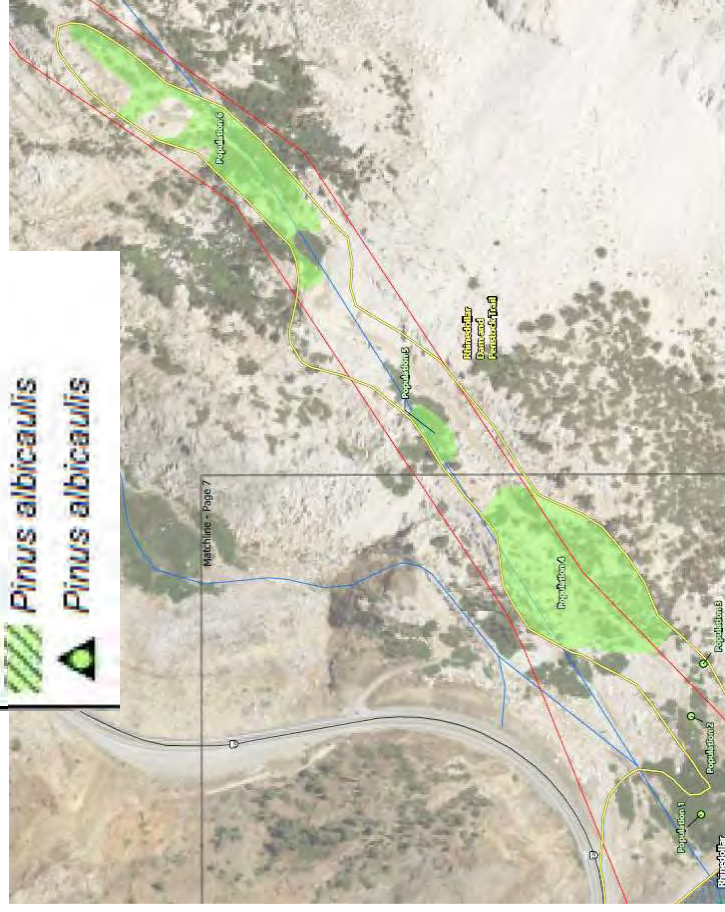
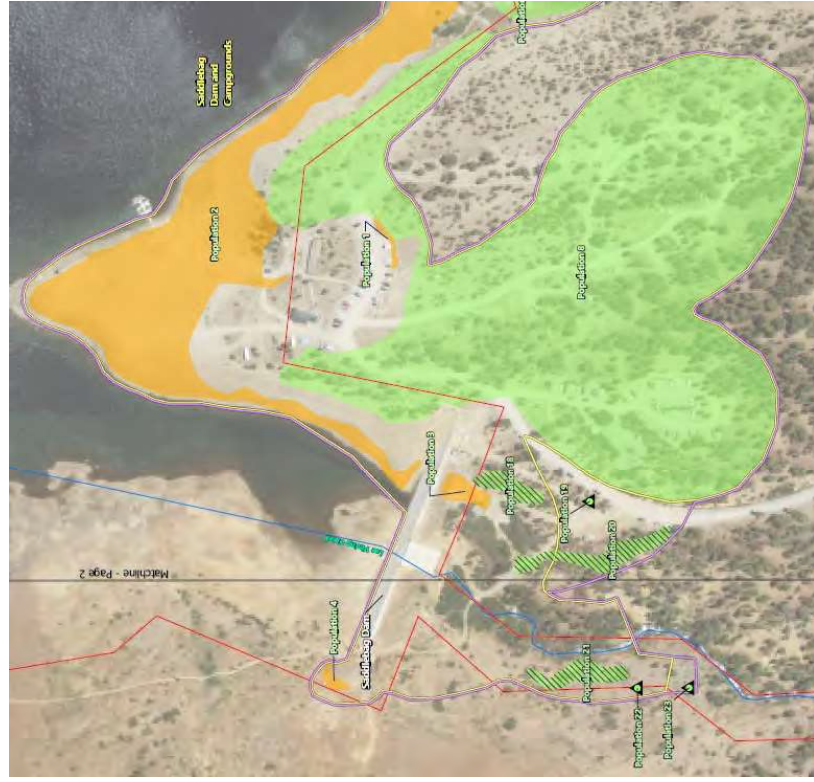
- Data / Results
 - Special-status plant species

Special-status Plant Species Populations 2022

- Agrostis humilis
- Pinus albicaulis

Special-status Plant Species Populations 2023

- Pinus albicaulis
- Pinus albicaulis



Saddlebag Dam

TERR-1 Botanical Resources

- Data / Results
 - Invasive plants
 - Cheatgrass – observed at Poole Powerhouse and Ellery Lake CG



TERR-1 Botanical Resources

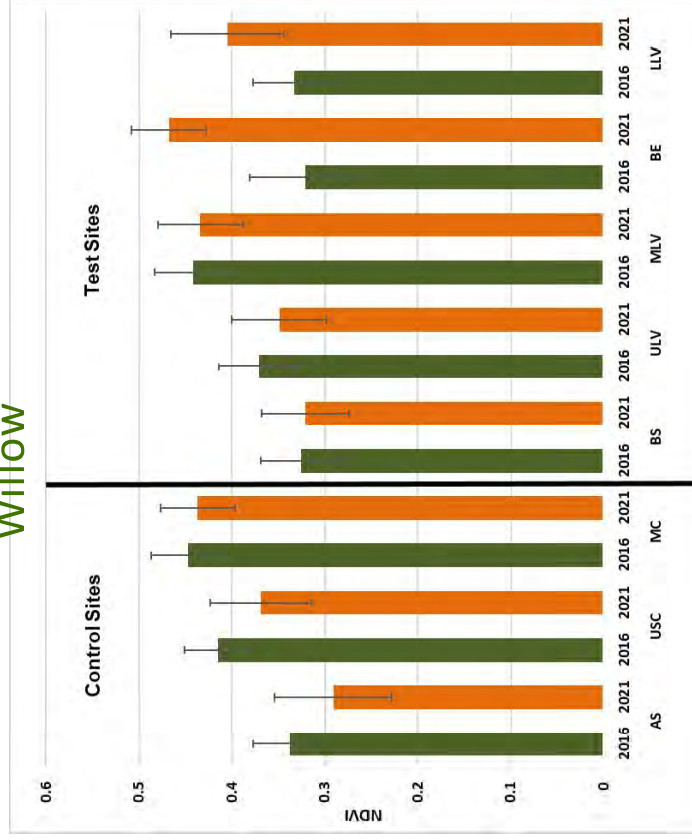
- Data / Results
 - Riparian monitoring
 - Variability in species cover among sites, vegetation types, and monitoring years.
 - Some vegetation is stable (e.g., riparian shrub cover at Site 1).
 - Some vegetation is variable (e.g., decrease in upland herb cover at Site 3 and a decrease in species richness across sites).
 - While there was variability in riparian cover/diversity, variability also occurs in upland vegetation, indicating that differences more likely caused by environmental factors outside the Project's control.



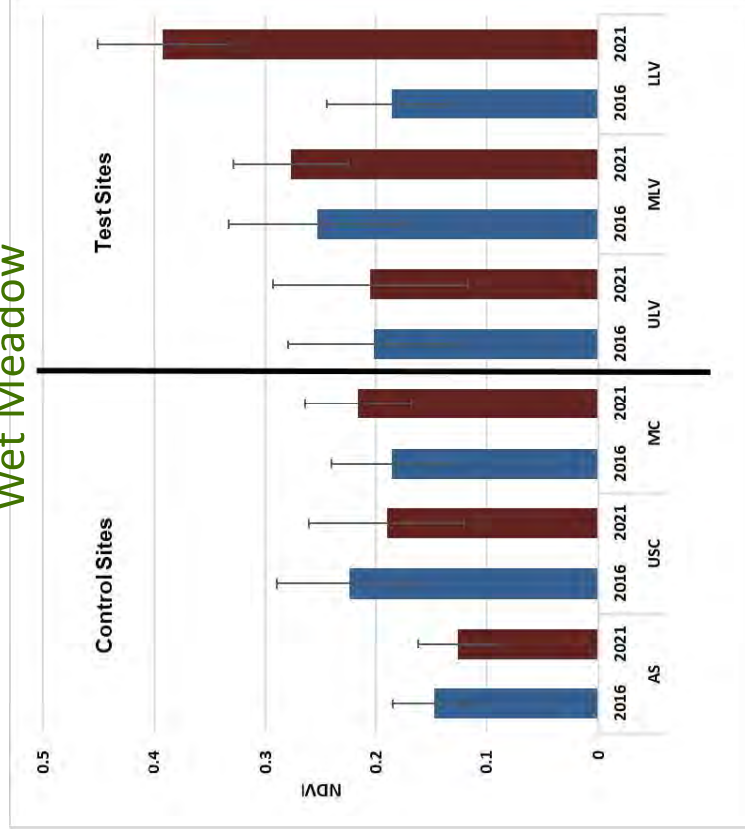
TERR-1 Botanical Resources

- Data / Results
 - NDVI analysis – measures "greenness" as a proxy for health
 - Compared "test" sites (below SCE facilities) with "control" sites (not below SCE facilities) using 2016 and 2021 imagery.
 - Looked at willow riparian scrub and wet meadow areas.

Willow



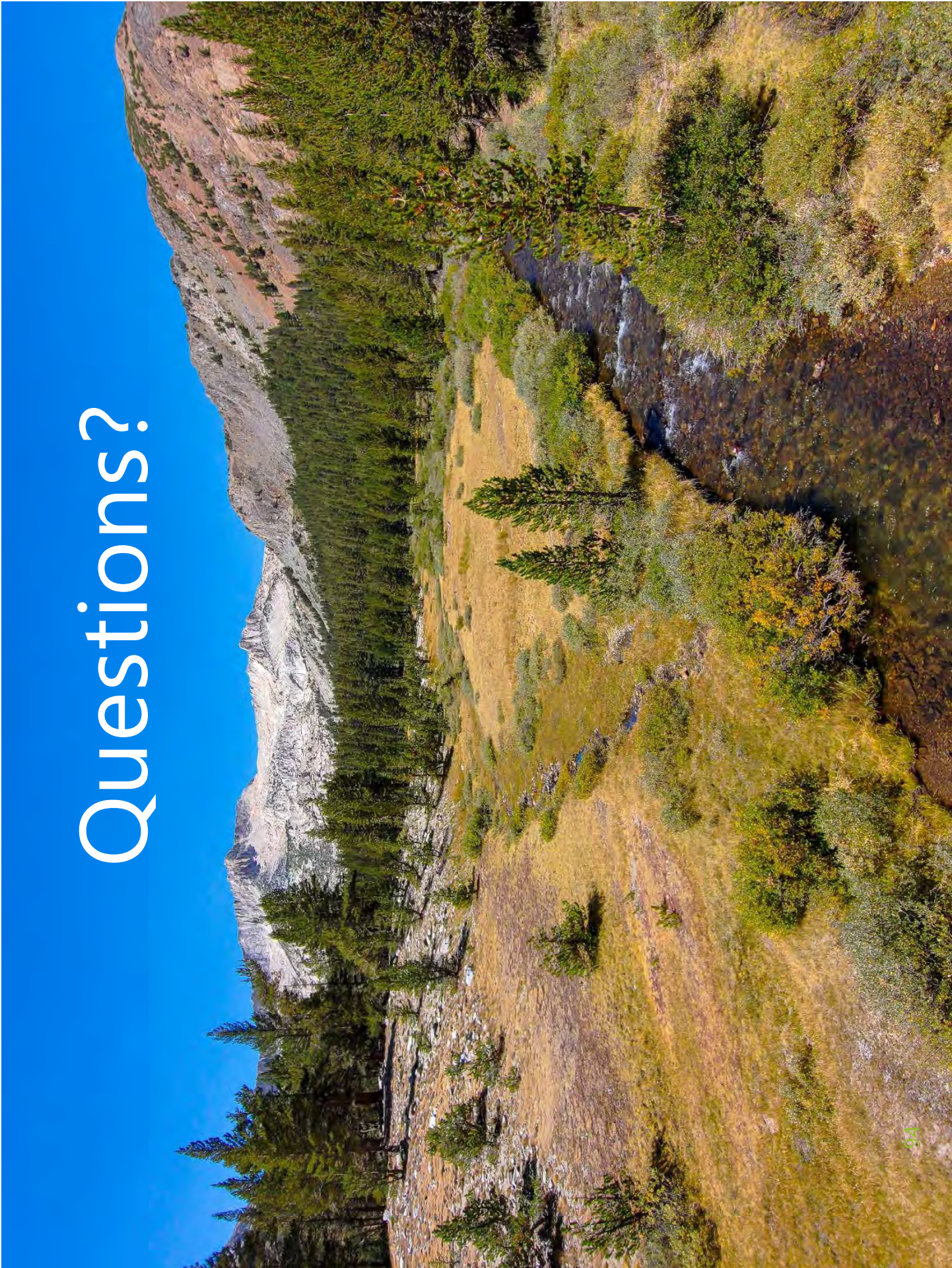
Wet Meadow



TERR-1 Botanical Resources

- Discussion
 - Vegetation communities
 - No effects to vegetation communities from O&M activities
 - Special-status plants
 - O&M activities have potential to affect special-status species (i.e., mountain bent grass near Saddlebag Dam) at a level similar to present O&M activity
 - Invasive plants
 - O&M activities have potential to affect invasive plant species (e.g., cheatgrass near Poole Powerhouse) at a level similar to present O&M activity
 - RTE species
 - No effects to RTE plant species (i.e., whitebark pine) from O&M activities
 - Wetlands and riparian
 - No effects to wetlands/riparian habitats from O&M activities

Questions?



TERR-2 Wildlife Resources

- Conducted surveys in 2022 (summer months), and 2023 (summer and fall months)
- Goals and Objectives
 - Build a compendium of common, U.S. Forest Service At-Risk Species and Species of Conservation Concern (USFS, 2019), and other special status wildlife species occurring within the Project areas that may be affected by routine O&M activities.
 - Identify rare, threatened, and endangered riparian birds in the area during general wildlife surveys.
 - Assess willow flycatcher (*Empidonax traillii*) nesting habitat downstream of the FERC Project Boundary between Poole Powerhouse and the reservoir at the Los Angeles Department of Water and Power (LADWP) Diversion Dam, using vegetation classification as the primary tool as well as aerial photography review and ground-truthing.

TERR-2 Wildlife Resources

- Modifications to Methods
 - Two primary survey years instead of one (11 survey days in 2022, 20 survey days in 2023, plus one survey day in 2021)
 - Trail cameras were deployed in summer and fall, but removed for the winter and spring; year-round camera deployment was initially proposed
 - Sampled ultrasonic acoustics to document bat activity
 - Yosemite toad (YOTO) survey modifications
 - Three consecutive survey years for YOTO (2022, 2023, 2024)
 - Expanded scope of visual encounter surveys
 - Deployed acoustic recorders
 - DNA sampling



TERR-2 Wildlife Resources

- Data / Results
 - Many observations and sign of common wildlife species documented
 - Large mammals observed with trail cameras: mountain lion, coyote, black bear, mule deer
 - Special-status species observed: Yosemite toad, bald eagle, golden eagle, olive-sided flycatcher, snowshoe hare, white-tailed jackrabbit, Sierra Nevada bighorn sheep
 - No bat roosting evidence
 - Ultrasonic acoustic recorders documented nine bat species with six occurring only below Poole PH.
 - Potentially suitable willow flycatcher habitat is present between Aspen CG and Lower Lee Vining CG (approximately 2 miles)



TERR-2 Wildlife Resources

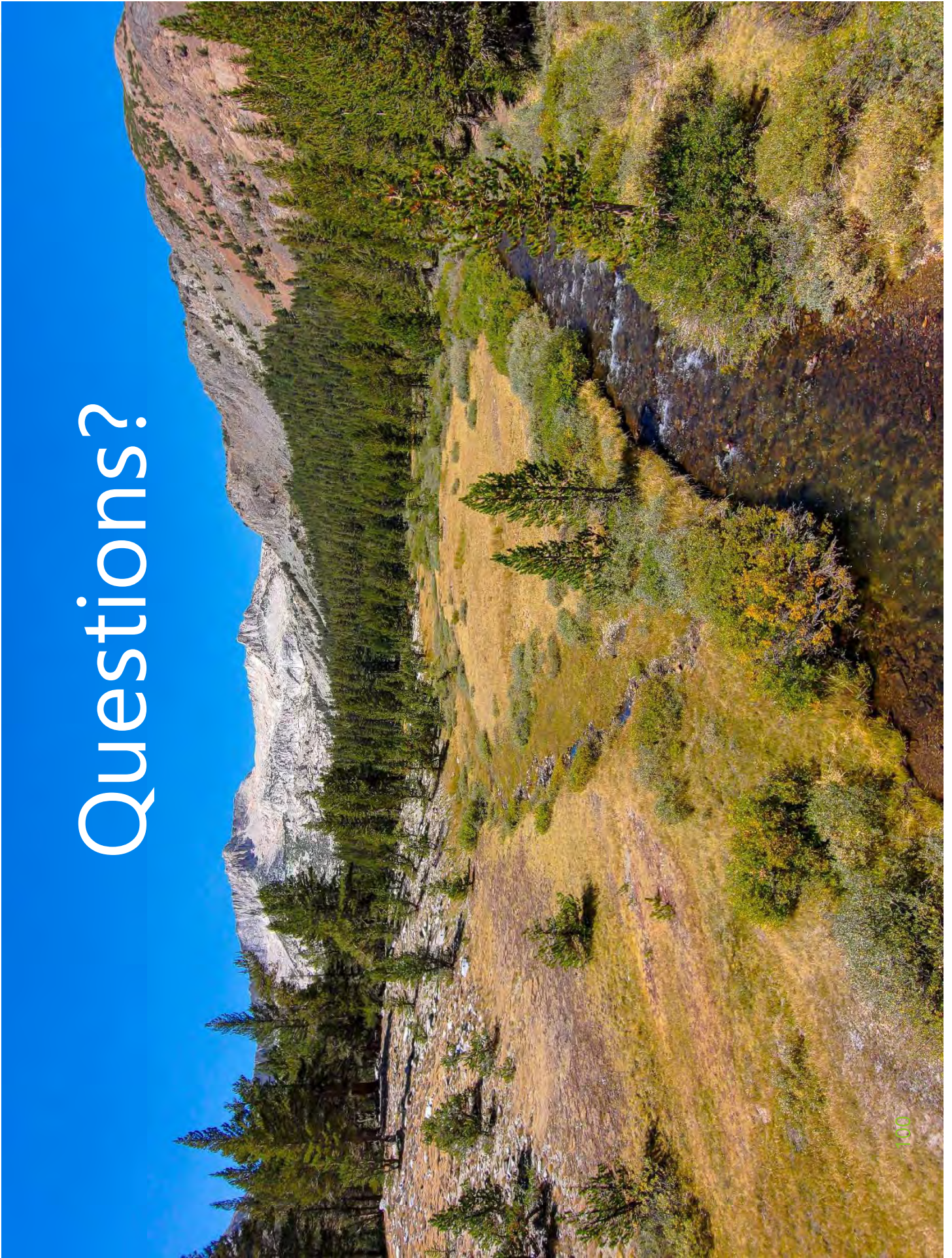
- Data / Results (continued)
 - YOTO upland habitat observed throughout the Study Area
 - No evidenced of YOTO breeding
 - Northern Saddlebag Lake or
 - Along lower Lee Vining Creek
 - YOTO breeding observed
 - South of Saddlebag Lake
 - West of Upper Lee Vining Creek (along Slate Creek)
 - Southeastern side of Tioga Lake



TERR-2 Wildlife Resources

- Discussion
 - Wildlife
 - No effects to wildlife or their habitats from O&M activities
 - Migratory birds and raptors
 - No effects to migratory birds or raptors from O&M activities
 - Bighorn sheep
 - No effects to bighorn sheep or the critical habitat from O&M activities
 - RTE species (including YOTO)
 - No effects to RTE species from O&M activities
 - Dispersed use recreation activities have potential to affect YOTO and its habitat at the south end of Saddlebag Lake and the southern shoreline of Tioga Lake (outside of the Project Boundary)

Questions?



Cultural & Tribal Resources

- Cultural Resources (CUL-1)
- Tribal Resources (TR-1)



CUL-1 Cultural Resources

- Field work conducted in July and August 2022
- Goals and Objectives
 - Meet FERC compliance requirements in the Code of Federal Regulations, Title 18, Part 5 (18 CFR Part 5) and Section 106 of the NHPA, as amended, by determining if Project-related activities and public access will have an adverse effect on historic properties.
 - Identify all archaeological resources, built-environment (BE) resources, and Traditional Cultural Resources within the Area of Potential Effect (APE); determine which are historic properties; and develop the Historic Properties Management Plan (HPMP) based on those results.
 - Ensure that future Project facilities and operations are consistent with the Desired Conditions described in the Land Management Plan for the Inyo National Forest (USFS, 2019) for Social and Economic Sustainability and Multiple Uses.

CUL-1 Cultural Resources

- No modifications to methods
- Data / Results CUL-1 Archaeology
 - 20 cultural resources revisited or newly identified of these 4 are previously recorded and 16 newly recorded
 - 2 new precontact sites, 15 historic-period archaeological sites, and 3 sites with both precontact and historic-period components; 10 of the archaeological sites also contain built-environment resources
 - 2 previously recorded sites were not relocated
 - 2 new precontact sites consist of lithic scatters and remain unevaluated for listing in the National Register of Historic Places (NRHP) pending further investigations
 - 3 multicomponent sites with a precontact component are classified as isolate artifacts and are considered categorically ineligible for the NRHP
 - All historic-period sites or components (18) are related to the hydroelectric project, recreation, and transportation in the region and are recommended not eligible for listing on the NRHP

CUL-1 Cultural Resources

- No modifications to methods
- Data / Results CUL-1 Built-Environment
 - Background research identified 28 built-environment resources, many documented as features of a multicomponent complex
 - 13 complexes or individual resources are associated with the Lee Vining Hydroelectric Project (LVHP)
 - 1 resource is associated with transportation
 - 3 resources are associated with recreation



CUL-1 Cultural Resources

Built-Environment Resources Associated with the LVHP

Historic Name / Current Name	Date(s) of Construction	Previous NRHP Eligibility	In APE?	2022 NRHP Recommendations
Lee Vining Hydroelectric Project	1912–1929	Not Eligible	Yes (partially)	Not Eligible
Poole Powerhouse Complex	1919–1927	Not Eligible	Yes	Not Eligible
Poole Powerhouse (Building 0101)	1924	Not Eligible	Yes	Individually Eligible
Triplex Cottage (Building 0102)	1924	Individually Eligible	Yes	Individually Eligible
Poole Power Plant Road	1917	Not Eligible	Yes (partially)	Not Eligible
Bishop-Lundy (Mill Creek-Control) Transmission Line	1913-1924; 1940; 1965; 1987	Not Eligible	Yes (partially)	Not Eligible
Rhinedollar Circuit	1919	Not Eligible	Yes (partially)	Not Eligible
Flowline, Tunnel, Penstock	1920–1927	Not Eligible	Yes	Not Eligible
Rhinedollar Complex	1917–1927	Not Eligible	Yes	Not Eligible
Tioga Complex	1917–1929	Not Eligible	Yes	Not Eligible
Saddlebag Complex	1917–1921	Not Eligible	Yes	Not Eligible
Saddlebag Lake Road	1917	Not Eligible	Yes (partially)	Not Eligible
Lee Vining Substation Complex (formally Powerhouse No. 3)	1924	Not Eligible	No	Not Eligible

APE = Area of Potential Effects; NRHP = National Register of Historic Places

CUL-1 Cultural Resources

Built-Environment Resources Not Associated with the LVHP

Historic Name/ Current Name	Date(s) of Construction	Previous NRHP Eligibility	In APE?	Current NRHP Recommendations
Tioga Pass Road/Hwy 120	1902–1905; 1924; 1939–1940; 1965–1970	-	Yes (partially)	Not Eligible
Saddlebag Lake Resort	1946–1947	Not Eligible	Yes (partially)	Not Eligible
Saddlebag Wilderness Cabin Complex	1930	-	Yes (partially)	Not Eligible
Tioga Pass Resort	1914-Present	Eligible Historic District	Yes (partially)	Eligible Historic District

APE = Area of Potential Effects; NRHP = National Register of Historic Places

CUL-1 Cultural Resources

- Discussion
 - Future O&M could potentially affect historic properties.
 - No observed impacts were documented at the 2 lithic scatters, which are pending NRHP evaluation
 - Poole Powerhouse and Triplex Cottage are both individually eligible under Criterion C in the area of Architecture as examples of the Greek Revival and French Eclectic styles, respectively
 - Regular Project O&M should not constitute an adverse effect unless done in a manner inconsistent with the HPMP that the new license will require

Historic Properties Management Plan

- As part of the relicensing process, SCE will develop an HPMP to provide a guiding philosophy and specific steps for how SCE can assess potential Project-related effects to the historic properties under its control with the overarching goal of avoiding adverse effects to those properties whenever possible or minimizing those effects then they are unavoidable.





TRI-1 Tribal Resources

- Conducted in 2022 to 2024
- Goals and Objectives
 - Assist FERC in meeting compliance requirements identified in 18 CFR Part 5 along with those requirements subject to NHPA Section 106 (as amended), among other federal laws and regulations, by determining if licensing of the Project would have an adverse effect upon Tribal resources, which may also include historic properties.
 - Identify and document Tribal resources identified within or immediately adjacent to the proposed APE.
 - Conduct a thorough American Indian ethnographic/ ethnohistoric survey of the proposed APE and Study Area.
 - Conduct outreach and contact with Tribal governments and their representatives.

TRI-1 Tribal Resources

- No Modifications to Methods
- Data / Results
 - Pending
 - Tribal report is in final draft stage, results will be shared after they are shared with Tribes and agencies.
- Conclusions
 - Future O&M could potentially affect historic properties.
 - HPMP will address any Tribal resources potential effects





Recreation and Land Use Resources

- Recreation Use Assessment (REC-1)
- Facilities Condition Assessment (REC-2)
- Aesthetic Resources (LAND-2)
- Project Lands and Roads Assessment (LAND-1)



REC-1 Recreation Use Assessment

- 2022 - First Study Season
 - User surveys conducted to collect primary reason for each recreator’s visit
 - Data collected helped to determine sites or areas with a potential connection to the Project that would be included in the second study season
- 2023 – Second Study Season
 - Postponed due to record snowfall received in the Lee Vining area
- 2024 - Second Study Season
 - Visitor Intercept Surveys and spot counts will to be conducted once Tioga Pass Road is cleared and USFS has had time to open sites
 - Traffic and trail counters will be installed once Tioga Pass Road is cleared
 - Creel surveys will be conducted once Tioga Pass road is cleared.

REC-1 Recreation Use Assessment

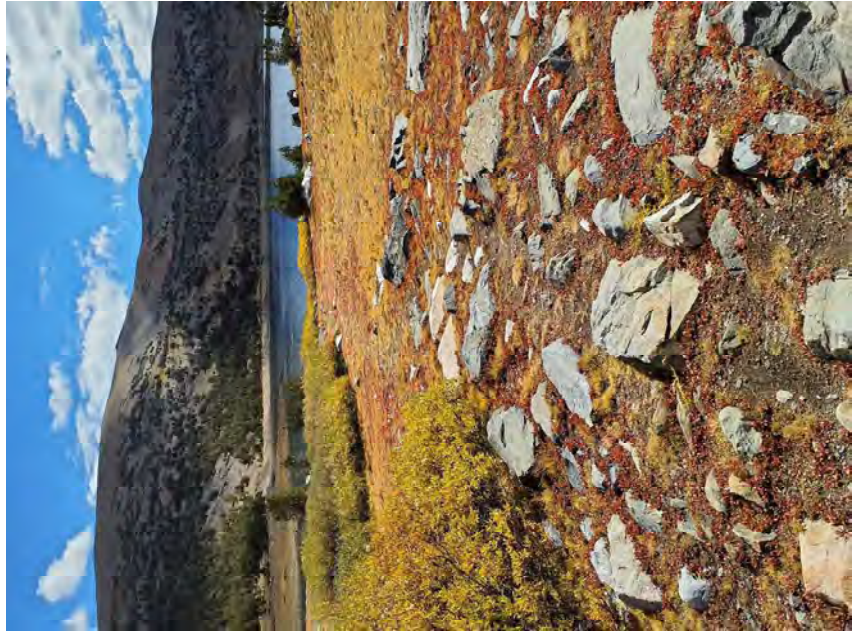
- Goals and Objectives
 - Determine which INF recreation facilities or activities have a potential connection to the Project and thus would warrant inclusion in the broader studies proposed in the second study season. (2022 study season)
 - For the study sites and activities identified:
 - Characterize existing recreation opportunities and visitation.
 - Characterize existing recreation visitor characteristics, needs, and preferences.
 - Estimate current recreational fishing effort in Project creeks and reservoirs.
 - Estimate future recreational demand and needs, including the need for additional recreation facility and access enhancements or enforcement actions.
 - Assess consistency of current recreation opportunities with the Desired Conditions, Goals, Standards, and Guidelines described in the Land Management Plan for the Inyo National Forest (USFS, 2019).
- Modifications to Methods
 - *Second season to be implemented spring and summer 2024*

REC-1 Recreation Use Assessment

- Data / Results
 - 2022 nexus surveys identified 10 sites that may have a potential nexus to the Project
 - These 10 sites were moved forward to the second study season and included as part of the REC-2 study
- Consultation to Date
 - March 1, 2023 - presented data and results for the first study season to the Recreation and Land Use Technical Working Group (TWG)
 - March 15, 2023 - Met with TWG to review methods and approach for 2023 surveys and locations per Recreation Study Plans
 - April 1, 2023 – Met with TWG to discuss Recreation Study Plan implementation
 - July 17, 2023 – Emailed TWG to inform of Recreation Study being postponed due to 2022/2023 snowfall totals
 - February 28, 2024 – Met with TWG to review REC-1 work to date and present the 2024 implementation plans

REC-1 Recreation Use Assessment

- Preliminary data will be shared with TWG once surveys are complete in late fall 2024, prior to filing the FLA.
- 2024 data will not be included in the DLA





REC-2 Facilities Condition Assessment

- Condition Assessment completed in August 2023
- Goals and Objectives
 - Identify existing dispersed or informal use areas, including documentation of existing conditions (2022 Study Season).
 - Conduct a facility inventory and condition assessment at existing recreation facilities and associated parking areas, including an evaluation of signage and public safety features (2023 Study Season).
 - Assess the carrying capacity and potential need for expansion, or alteration of existing recreation facilities (following data analysis of Study REC-1).
 - Assess the condition and potential for universal accessibility, where feasible (2023 Study Season).
 - Assess the consistency of current facilities with the Desired Conditions, Goals, Standards, and Guidelines described in the Land Management Plan for the Inyo National Forest (USFS, 2019) (2023 Study Season).
- Modifications to Methods
 - 2023 study implementation was delayed from June to August due to access
 - Tioga Lake Overlook Info Site and Glacier Canyon Trailhead are co-located, so only one data form was collected

REC-2 Facilities Condition Assessment

- Data / Results
 - Facilities Inventory and Condition
 - Saddlebag Lake Area
 - CG with 20 sites, restrooms, potable water
 - Day Use Area with boat launch, restrooms, potable water
 - Trailhead with group campsite, picnic tables, potable water, restrooms
 - Tioga Lake Area
 - CG with 13 sites, restrooms, potable water
 - Overlook and trailhead with restrooms, picnic tables
 - Ellery Lake and Rhinedollar Dam Area
 - CG with 15 sites, restrooms, potable water
 - Bennettville Trailhead
 - Junction Campground
 - 14 sites, restrooms
 - Sawmill Walk-In Campground
 - 11 sites, restrooms
 - Dispersed Use
 - Saddlebag Lake: 7,047.5 linear feet of trails
 - Tioga Lake: 9,923.6 linear feet of trails
 - Ellery Lake: 8,930.1 linear feet of trails
 - Rhinedollar Dam: 3,607.1 linear feet of trails

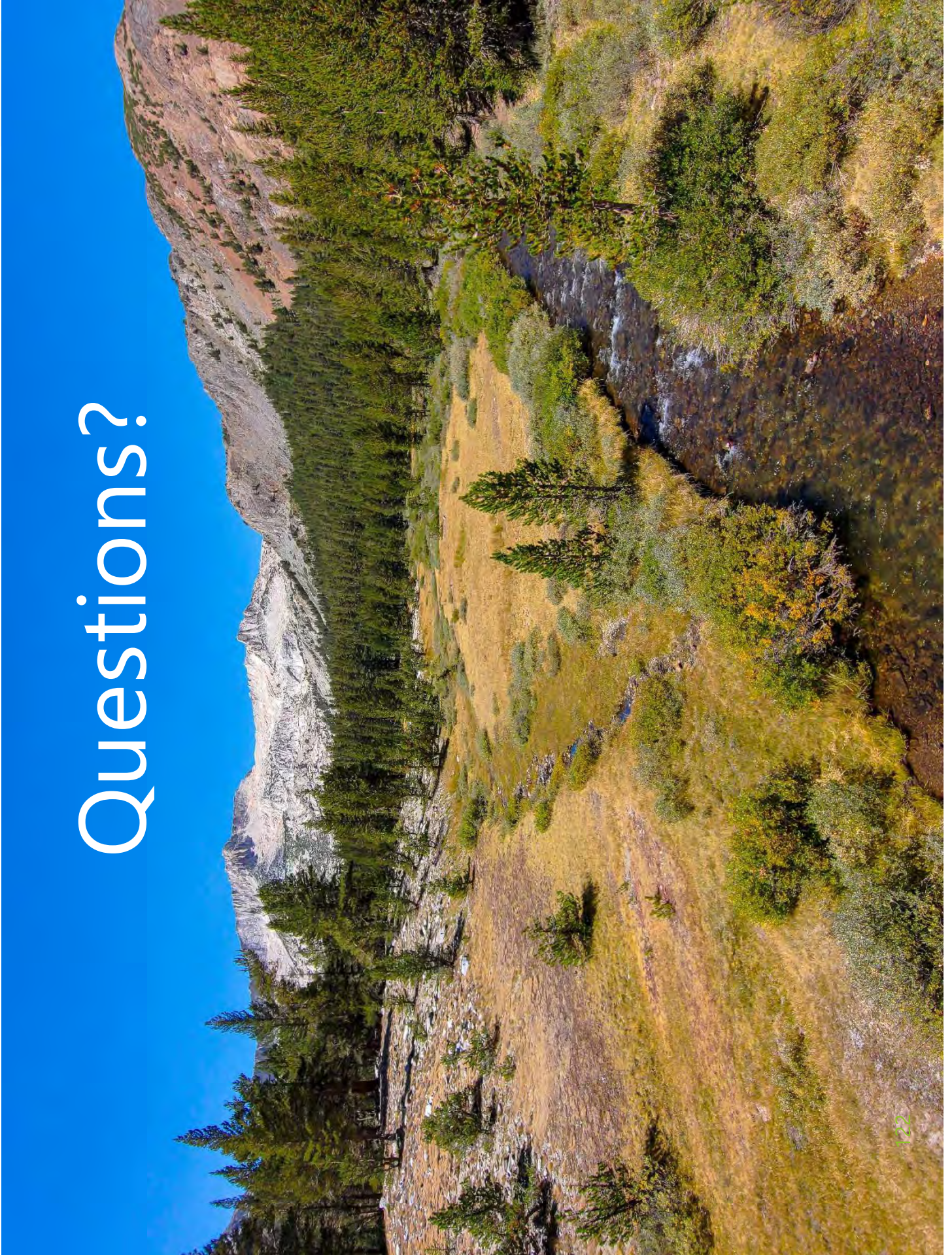


REC-2 Facilities Condition Assessment

- Discussion
 - Overall sites were noted to be in good condition with a minimal number of amenities needing maintenance or repairs
 - Of the dispersed use noted, trail counters will be placed in 5 locations as part of the REC-1 Study to help inform recreation use.
 - This study was found to be consistent with many Inyo National Forest-wide desired conditions, goals, standards, and guidelines. Additionally, the study was found to align with many Area-Specific desired conditions, goals, standards, and guidelines.

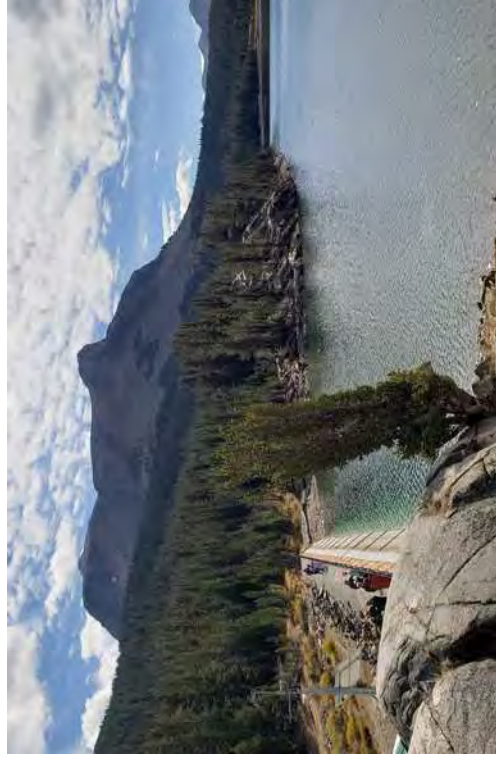


Questions?



LAND-2 Aesthetic Resources

- Conducted in August 2023
- Goals and Objectives
 - Characterize the visual resources of Project lands, document the visual quality and management objectives in the USFS INF Land Management Plan, and document the existing visual character of Project facilities and features from affected viewsheds and representative Key Observation Points (KOPs).
 - Inventory, map, and describe existing Project infrastructure, O&M, and construction activities that may affect visual resources of the Project Area.
 - Obtain data and maps from the USFS GIS and characterize existing visual resource inventories and management objectives associated with the Project lands as developed under the INF Land Management Plan. Summarize variety classes, sensitivity levels, distance zones, and Recreation Opportunity Spectrum classifications.
 - Conduct a desktop viewshed analysis and assess what portion of Project lands are visually affected by Project-related activities.
 - Select KOPs with TWG.
 - Assess the KOP locations to document the existing scenic character and potential use.
- No modifications to methods



LAND-2 Aesthetic Resources

- Data / Results
 - Visual character of Project features and lands
 - Impoundments and creek areas, undeveloped shorelines with occasional recreation facilities and structures
 - Evergreen trees, shrubs, grasses, meadows, wetlands, barren rock, distant views of hills and mountains beyond
 - INF Land Management Plan
 - Scenic Integrity Objectives of FERC Project Boundary lands are High (99.9%)
 - Recreation Opportunity Spectrum area is "Modified/Roaded"
 - Wild and Scenic Rivers and Scenic Highways
 - No National Wild and Scenic Rivers in FERC Project Boundary, but Lee Vining Creek is eligible for inclusion
 - Highway 120, through the Project, is National Forest Scenic Byway
 - Eight key observation points documented
 - Viewshed analysis
 - Saddlebag Dam would be visible from KOP 1 (Saddlebag Lake Day Use Area / CG)
 - Both Tioga Auxiliary Dam and Tioga Dam would be visible from KOP 3 (Tioga Lake CG) and KOP 4 (Tioga Lake Overlook)
 - Poole Powerhouse would be visible from KOP 7 (Poole Powerhouse Gate)
 - All Project facilities are in USFS "High" Scenic Integrity Objective area and "Modified/Roaded" Recreation Opportunity Spectrum area

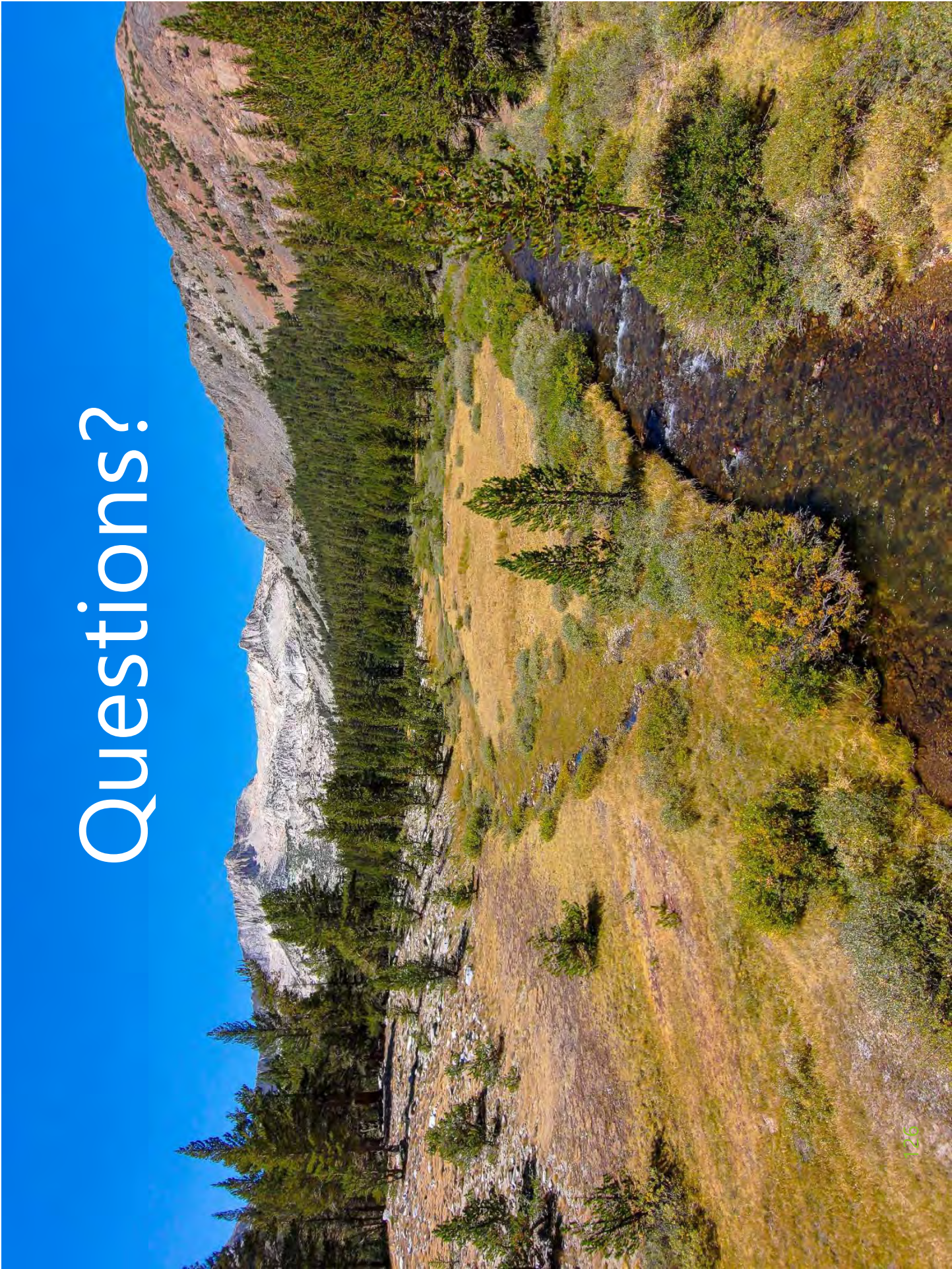


LAND-2 Aesthetic Resources

- Existing visual requirements
 - Requirements for Approval
 - Need USFS approval before affecting any resource on FS lands
 - Facility Design and Placement
 - Facilities are painted in earth tones and are landscaped to break up the lines of the buildings
 - New structures are co-located with existing structures
 - USFS reviews and approves re/vegetation plans
 - Pipeline and Similar Structure Placement
 - Pipelines are buried or painted in earth tones
 - Ground disturbances revegetate naturally
 - Transmission Lines
 - *None in Project Boundary*
 - Roads and Cleared Areas
 - Roads and cleared areas are located to minimize visual impact
 - Revegetated with native species to blend in with surroundings



Questions?



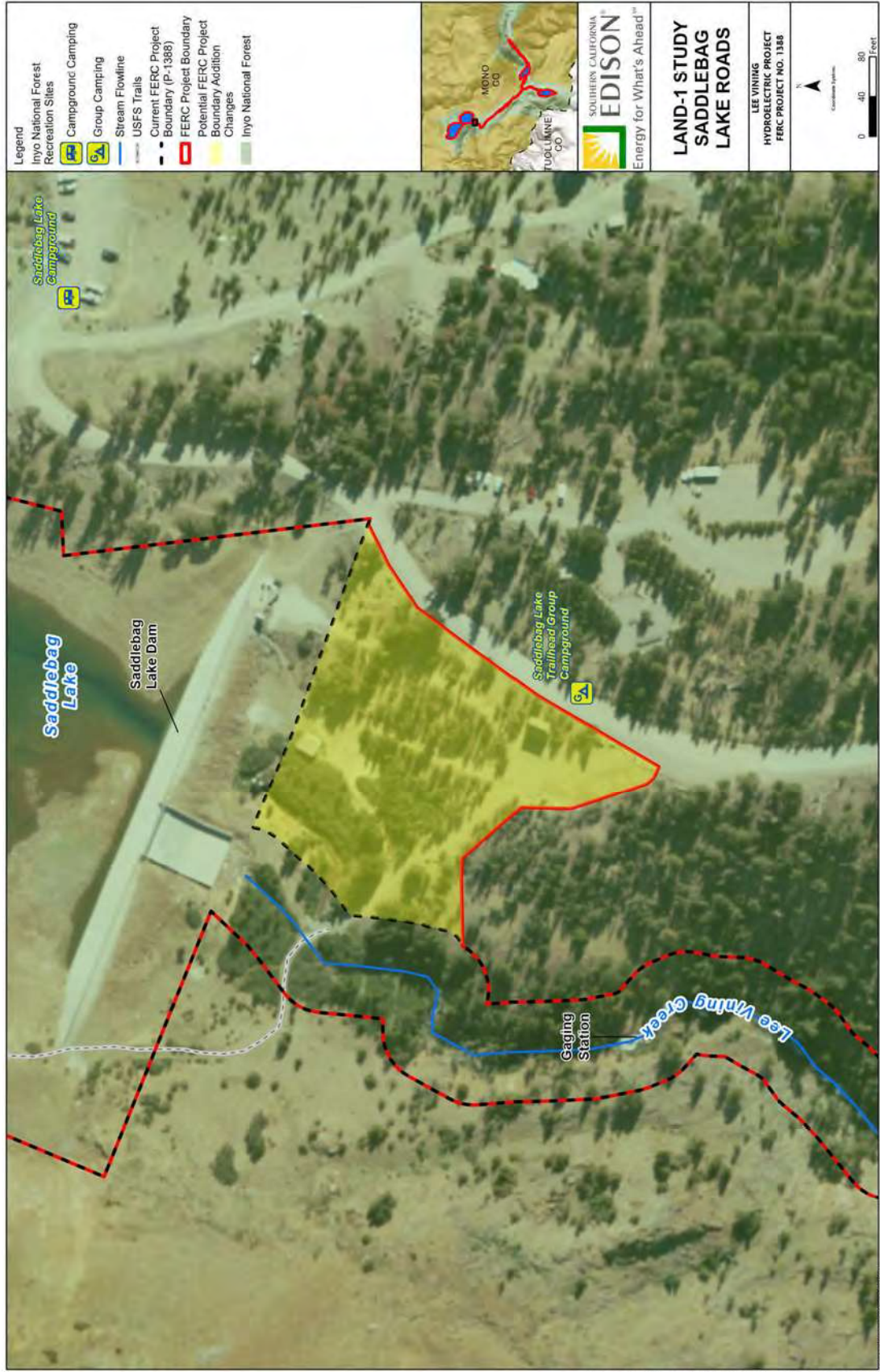
LAND-1 Project Lands and Roads

- Conducted via desktop in fall 2023
- Goals and Objectives
 - The goal of the study is to assess potential modifications to the FERC Project Boundary to account for future O&M of Project facilities.
 - Identify whether additional Project lands may be needed for operation of the Project, including laydown and spoil areas, or whether current Project lands or facilities are no longer needed for Project operation.
 - Confirm existing land ownership and federal lands within the existing FERC Project Boundary are accurately represented.
 - Identify which roads or access trails are used for access to and maintenance of the Project, and identify existing agreements related to maintenance of those roads and access trails.
 - Inventory and assess the condition of those identified Project-related roads and access trails, including the potential need for improvements.
 - Identify for purposes of describing in the Draft License Application all Project facilities and structures used for hydroelectric generation (e.g., buildings, roads, and spillways).

LAND-1 Project Lands and Roads

- No modifications to methods
- Data / Results
 - Proposed changes to Project lands
 - Add 0.14 acre of USFS lands at Tioga Dam for operations
 - Add 0.52 acre of USFS land at Tioga Dam for an access road
 - Add 2.05 acres of USFS land at Saddlebag Dam for roads
 - Remove 11.45 acres of SCE land on north side of Ellery Lake
 - All of the FERC Project Boundary is within USFS lands, except the rectangular area at Ellery Lake

LAND-1 Project Lands and Roads



LAND-1 Project Lands and Roads



LAND-1 Project Lands and Roads





Schedule & Next Steps

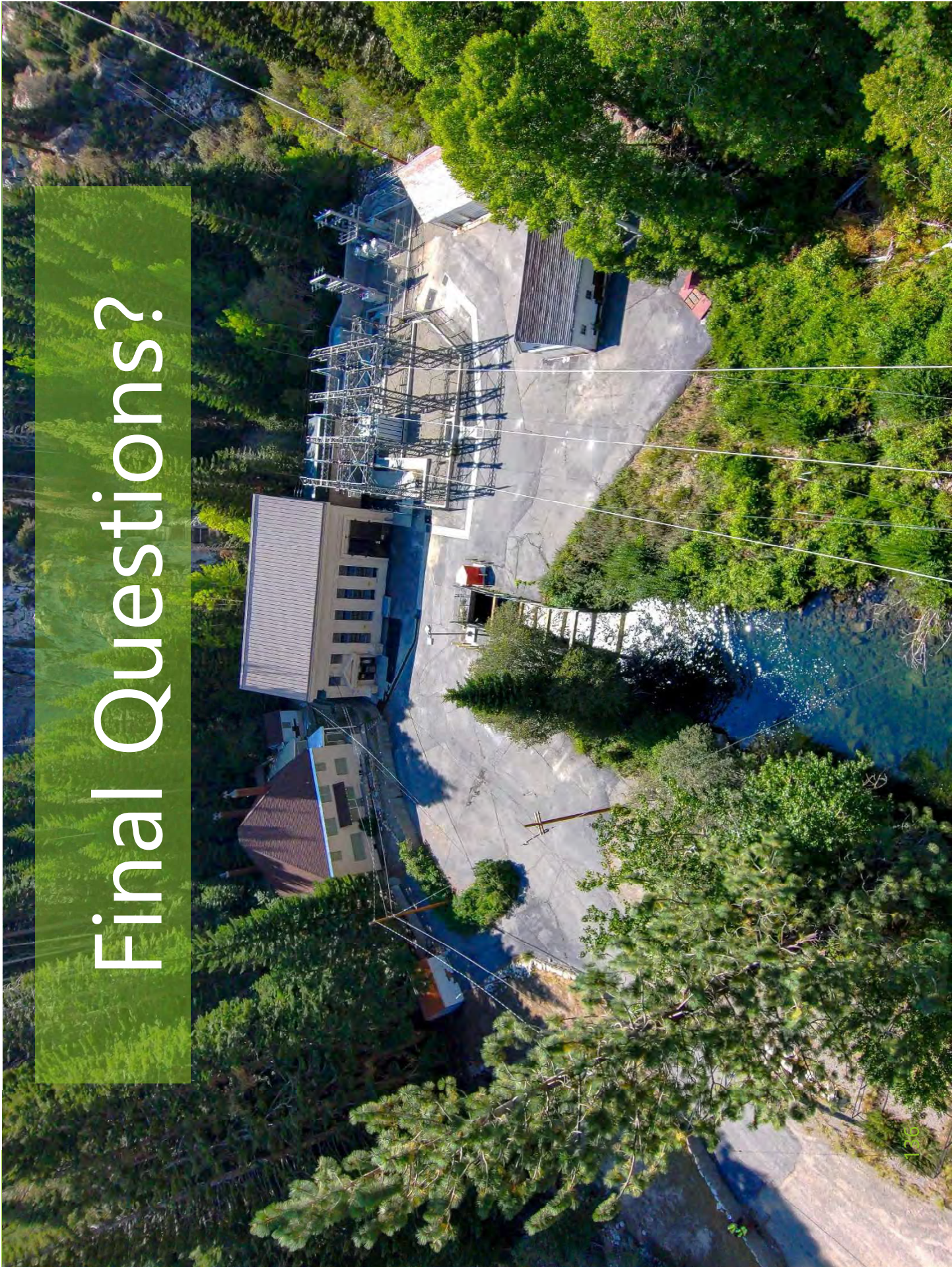
Relicensing Process Schedule

Date	Activity
April 16, 2024	Technical Reports to Stakeholders, start of 60-day comment period
May 14, 2024	Technical Report Review Stakeholder Meeting
June 11, 2024	Technical Report Comment period ends, send comments to SCE & Relicensing Team
July – August 2024	Focused TWG meetings, as needed
Spring – Fall 2024	2024 field studies, collect last pieces of data <ul style="list-style-type: none"> • REC-1 • Yosemite Toad • Cultural Resources
September 2024	SCE Files Draft License Application, including Final Technical Reports
October/November 2024	Recreation TWG Discussions
December 2, 2024	DLA comments due
January 2025	SCE Files Final License Application

How to Stay Involved

- Check the Project website for updates/news at www.sce.com/leevining
- You can view other SCE relicensing Projects at www.sce.com/regulatory/hydro-licensing
- Sign up to receive Project-related emails through the Contact Registration Form/Project Questionnaire on the Project website
- Sign up for FERC's for e-subscription (docket number "P-1388") at www.ferc.gov
- Email Carissa Shoemaker with questions carissa.shoemaker@kleinschmidtgroup.com

Final Questions?



Thank you!

C-07.1_RE_LV Botanical Technical Report for review

From: [Carissa Shoemaker](#)
To: [Meagher, Mary - FS, CA](#)
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review
Date: Friday, May 17, 2024 9:09:00 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.jpg](#)

Excellent. Let me know if you'd like any of the other Tech Reports for review too.
Have a good one and a good weekend Mary

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Friday, May 17, 2024 9:09 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Apologies. I missed the first email. I received the GIS, thank you.



Mary Meagher
Acting Forest Botanist
Forest Service
Inyo National Forest
c: 530-562-7083
mary.meagher@usda.gov

351 Pacu Ln.
Bishop, CA 93514
www.fs.usda.gov/inyo



**Caring for the land and serving
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From: Meagher, Mary - FS, CA
Sent: Friday, May 17, 2024 9:04 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Thank you – can I get the raw GIS data as well so I can enter the findings into our corporate database?

Thanks.



Mary Meagher
Acting Forest Botanist

Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

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Bishop, CA 93514
www.fs.usda.gov/inyo



**Caring for the land and serving
people**

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Friday, May 17, 2024 8:58 AM

To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>

Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Attached is the mapset for the Botanical tech report.

Thank you for your patience!

Carissa Shoemaker
Licensing Coordinator

www.kleinschmidtgroup.com

907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>

Sent: Thursday, May 16, 2024 9:02 AM

To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Both



Mary Meagher
Acting Forest Botanist

Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

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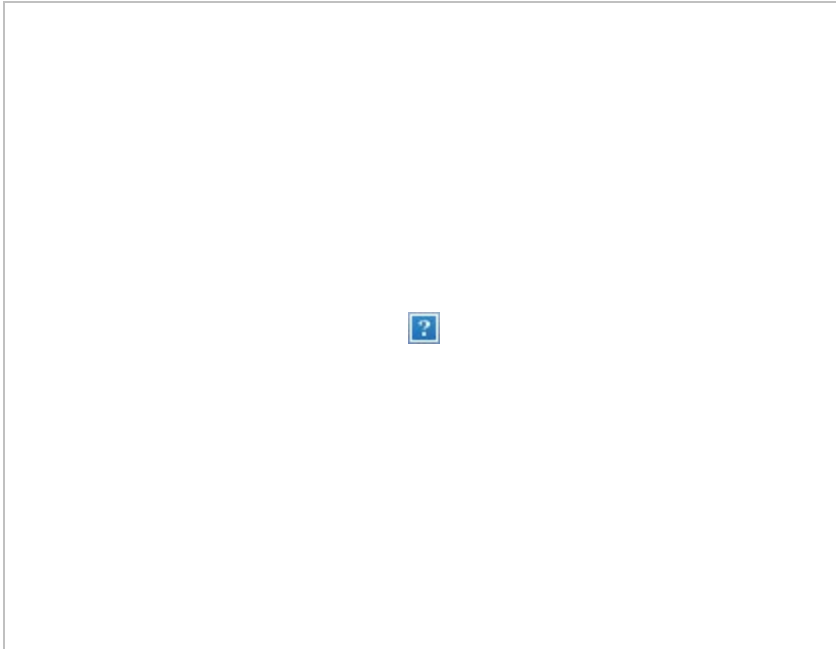
From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Thursday, May 16, 2024 8:58 AM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Subject: Re: [External Email]Lee Vining Botanical Tech Report for review

Hmm, is that for the data folder or the tech report folder, or both?

Sent via the Samsung Galaxy S22 5G, an AT&T 5G smartphone
Get [Outlook for Android](#)

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Thursday, May 16, 2024 8:47:46 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

I am now getting the following error message. Not exactly sure what this means...



Thanks for your help!



Mary Meagher
Acting Forest Botanist

Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

351 Pacu Ln.
Bishop, CA 93514
www.fs.usda.gov/inyo



**Caring for the land and serving
people**

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Thursday, May 16, 2024 8:41 AM

To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>

Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>

Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Hi Mary,

I just added you to the OneDrive folder and added the Tech Reports to a OneDrive folder too, in case you have any issues getting those.

[LV 2022 Tech Report Data Share with CDFW](#)

[LV 2023 Tech Reports for Stakeholders](#)

Let me know if you have any other access issues or questions.

Thanks!

Carissa Shoemaker

Licensing Coordinator

www.kleinschmidtgroup.com

907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>

Sent: Wednesday, May 15, 2024 8:48 AM

To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>

Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Thank you, Carissa for sending those emails. The Data Share folder is giving me the following error: "Sorry, this email address isn't associated with this secure link." Can you add my email to the folder?

Thanks!



Mary Meagher
Acting Forest Botanist
Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

351 Pacu Ln.
Bishop, CA 93514
www.fs.usda.gov/inyo



**Caring for the land and serving
people**

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Wednesday, May 15, 2024 6:52 AM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgrou.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Good morning Mary,

It was nice to meet you yesterday! Attached are emails I previously sent to Lee Vining Technical Working Groups with links to the Draft Technical Reports and data requests from the 2022 Tech Report review period. Some of the botanical data you've requested lives in the LV 2022 [Tech Report Data Share with CDFW >> Botanical Spatial Data >> TERR-1 Spatial Data](#) folder; however, this only includes 2022 survey data, not 2023 data. I will compile that and get it to you as soon as possible.

Let me know if you have any questions or issues opening the links.

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Monday, May 13, 2024 11:54 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

You don't often get email from mary.meagher@usda.gov. [Learn why this is important](#)

Hi Carissa,

Can you share the corresponding GIS & occurrence data for the SCC and Invasive plants found as part of the surveys?

Thanks,



Mary Meagher
Acting Forest Botanist
Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

351 Pacu Ln.
Bishop, CA 93514
www.fs.usda.gov/inyo



**Caring for the land and serving
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From: Rowe, Courtney - FS, CA <Courtney.Rowe@usda.gov>
Sent: Tuesday, February 27, 2024 1:53 PM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Subject: FW: [External Email]Lee Vining Botanical Tech Report for review

C.J. Rowe, courtney.rowe@usda.gov, MLRD-MRD Planner
"Start where you are. Use what you have. Do what you can." –Arthur Ashe

From: Irons, Sheila - FS, CA <sheila.irons@usda.gov>
Sent: Wednesday, September 20, 2023 5:02 PM
To: Rowe, Courtney - FS, CA <Courtney.Rowe@usda.gov>
Subject: FW: [External Email]Lee Vining Botanical Tech Report for review



Sheila Irons
Forest Lands Officer
Forest Service
Inyo National Forest

p: 760-873-2477
c: 760-965-9609

sheila.irons@usda.gov

351 Pacu Lane, Suite 200

Bishop, CA 93514

www.fs.usda.gov



**Caring for the land and serving
people**

From: Irons, Sheila - FS, CA

Sent: Thursday, September 14, 2023 9:44 AM

To: Sill, Nathan - FS, CA <nathan.sill@usda.gov>

Subject: FW: [External Email]Lee Vining Botanical Tech Report for review

Same for this one.....



Sheila Irons
Forest Lands Officer
Forest Service
Inyo National Forest

p: 760-873-2477

c: 760-965-9609

sheila.irons@usda.gov

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Bishop, CA 93514

www.fs.usda.gov



**Caring for the land and serving
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From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Wednesday, September 13, 2023 4:38 PM

Cc: Kelly Larimer <Kelly.Larimer@KleinschmidtGroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Lauren Rosenkranz <Lauren.Rosenkranz@KleinschmidtGroup.com>; matthew.woodhall@sce.com; martin.ostendorf@sce.com; Audry Williams <audry.williams@sce.com>; Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>; Allison Rudalevige <allison.rudalevige@psomas.com>; Brad Blood <bblood@psomas.com>

Subject: [External Email]Lee Vining Botanical Tech Report for review

Some people who received this message don't often get email from carissa.shoemaker@kleinschmidtgroup.com.

[Learn why this is important](#)

[External Email]

If this message comes from an **unexpected sender** or references a **vague/unexpected topic**;

Use caution before clicking links or opening attachments.

Please send any concerns or suspicious messages to: Spam.Abuse@usda.gov

Hello Lee Vining Botanical and Terrestrial TWG Members,

The Lee Vining relicensing team has prepared a Draft Technical Report of the Year 1 (2022) General Botanical Resources Survey (TERR-1). The report can be found at this link:

<https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:a282fae0-8c0e-46b7-addd-bd47d7d26d65>.

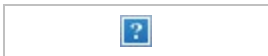
We are submitting this report to you for a 60-day comment period. Please let us know if you have any comments or questions on the draft by Monday, 13 November. We will incorporate your comments, as appropriate, into the final version and file the Final Technical Report with FERC along with the Draft License Application in September 2024.

Other Lee Vining studies are ongoing and their reports will be coming to you for review as they are completed. Let me know if you have questions on the schedule or status of other studies.

Please let me know if you have any questions.

Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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C-07.2_RE_LV Botanical Technical Report for review

From: [Carissa Shoemaker](#)
To: "Meagher, Mary - FS, CA"
Cc: [Shannon Luoma](#)
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review
Date: Thursday, June 6, 2024 9:42:00 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.jpg](#)
[P1388_TERR1_Botanical_2023.zip](#)

Hi Mary,

The 2023 Lee Vining Botanical data is attached as a .zip file. Let me know if you have any questions or issues accessing it.

Thank you!

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Carissa Shoemaker
Sent: Friday, May 17, 2024 9:10 AM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Excellent. Let me know if you'd like any of the other Tech Reports for review too.
Have a good one and a good weekend Mary

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Friday, May 17, 2024 9:09 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Apologies. I missed the first email. I received the GIS, thank you.



Mary Meagher
Acting Forest Botanist
Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

351 Pacu Ln.
Bishop, CA 93514
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From: Meagher, Mary - FS, CA
Sent: Friday, May 17, 2024 9:04 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Thank you – can I get the raw GIS data as well so I can enter the findings into our corporate database?

Thanks.



Mary Meagher
Acting Forest Botanist
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Inyo National Forest

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From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Friday, May 17, 2024 8:58 AM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Attached is the mapset for the Botanical tech report.
Thank you for your patience!

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Thursday, May 16, 2024 9:02 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Both



Mary Meagher
Acting Forest Botanist
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mary.meagher@usda.gov

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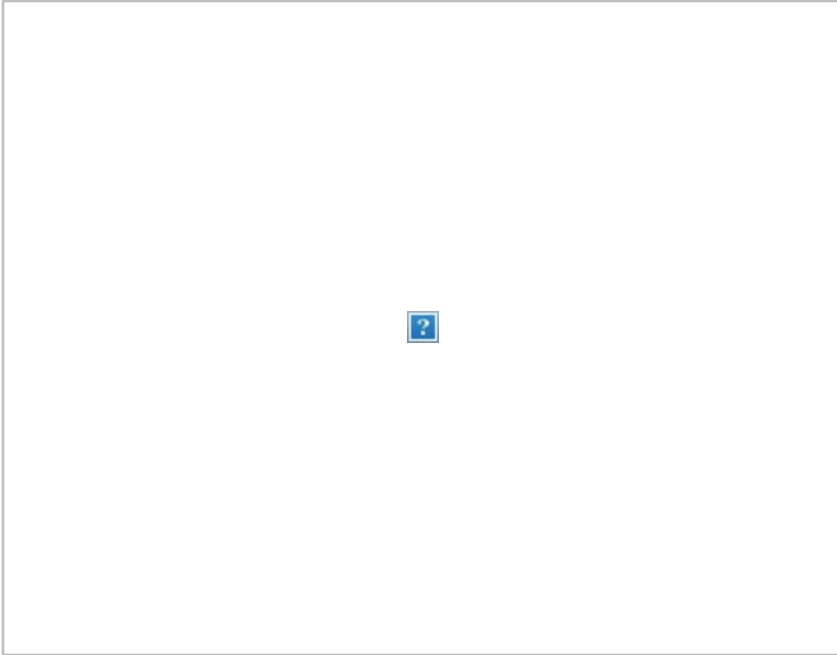
From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Thursday, May 16, 2024 8:58 AM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Subject: Re: [External Email]Lee Vining Botanical Tech Report for review

Hmm, is that for the data folder or the tech report folder, or both?

Sent via the Samsung Galaxy S22 5G, an AT&T 5G smartphone
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From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Thursday, May 16, 2024 8:47:46 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

I am now getting the following error message. Not exactly sure what this means...



Thanks for your help!



Mary Meagher
Acting Forest Botanist
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From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Thursday, May 16, 2024 8:41 AM

To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>

Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>

Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Hi Mary,

I just added you to the OneDrive folder and added the Tech Reports to a OneDrive folder too, in case you have any issues getting those.

 [LV 2022 Tech Report Data Share with CDFW](#)

 [LV 2023 Tech Reports for Stakeholders](#)

Let me know if you have any other access issues or questions.
Thanks!

Carissa Shoemaker
Licensing Coordinator

www.kleinschmidtgroup.com

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Upcoming outage, traveling for work: May 13-16

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Wednesday, May 15, 2024 8:48 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

You don't often get email from mary.meagher@usda.gov. [Learn why this is important](#)

Thank you, Carissa for sending those emails. The Data Share folder is giving me the following error:
"Sorry, this email address isn't associated with this secure link." Can you add my email to the folder?

Thanks!



Mary Meagher
Acting Forest Botanist

Forest Service
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mary.meagher@usda.gov

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From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Wednesday, May 15, 2024 6:52 AM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

Good morning Mary,

It was nice to meet you yesterday! Attached are emails I previously sent to Lee Vining Technical Working Groups with links to the Draft Technical Reports and data requests from the 2022 Tech Report review period. Some of the botanical data you've requested lives in the LV 2022 [Tech Report Data Share with CDFW >> Botanical Spatial Data >> TERR-1 Spatial Data](#) folder; however, this only includes 2022 survey data, not 2023 data. I will compile that and get it to you as soon as possible.

Let me know if you have any questions or issues opening the links.

Carissa Shoemaker
Licensing Coordinator

www.kleinschmidtgroup.com

907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Sent: Monday, May 13, 2024 11:54 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [External Email]Lee Vining Botanical Tech Report for review

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Hi Carissa,

Can you share the corresponding GIS & occurrence data for the SCC and Invasive plants found as part of the surveys?

Thanks,



Mary Meagher
Acting Forest Botanist
Forest Service
Inyo National Forest

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From: Rowe, Courtney - FS, CA <Courtney.Rowe@usda.gov>
Sent: Tuesday, February 27, 2024 1:53 PM
To: Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>
Subject: FW: [External Email]Lee Vining Botanical Tech Report for review

C.J. Rowe, courtney.rowe@usda.gov, MLRD-MRD Planner

"Start where you are. Use what you have. Do what you can." –Arthur Ashe

From: Irons, Sheila - FS, CA <sheila.irons@usda.gov>
Sent: Wednesday, September 20, 2023 5:02 PM
To: Rowe, Courtney - FS, CA <Courtney.Rowe@usda.gov>
Subject: FW: [External Email]Lee Vining Botanical Tech Report for review



Sheila Irons
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From: Irons, Sheila - FS, CA
Sent: Thursday, September 14, 2023 9:44 AM
To: Sill, Nathan - FS, CA <nathan.sill@usda.gov>
Subject: FW: [External Email]Lee Vining Botanical Tech Report for review

Same for this one.....



Sheila Irons
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From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Wednesday, September 13, 2023 4:38 PM
Cc: Kelly Larimer <Kelly.Larimer@KleinschmidtGroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Lauren Rosenkranz <Lauren.Rosenkranz@KleinschmidtGroup.com>; matthew.woodhall@sce.com; martin.ostendorf@sce.com; Audry Williams <audry.williams@sce.com>; Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>; Allison Rudalevige <allison.rudalevige@psomas.com>; Brad Blood <bblood@psomas.com>
Subject: [External Email]Lee Vining Botanical Tech Report for review

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Hello Lee Vining Botanical and Terrestrial TWG Members,

The Lee Vining relicensing team has prepared a Draft Technical Report of the Year 1 (2022) General Botanical Resources Survey (TERR-1). The report can be found at this link:

<https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:a282fae0-8c0e-46b7-addd-bd47d7d26d65>.

We are submitting this report to you for a 60-day comment period. Please let us know if you have any comments or questions on the draft by Monday, 13 November. We will incorporate your comments, as appropriate, into the final version and file the Final Technical Report with FERC along with the Draft License Application in September 2024.

Other Lee Vining studies are ongoing and their reports will be coming to you for review as they are completed. Let me know if you have questions on the schedule or status of other studies.

Please let me know if you have any questions.

Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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Summary of Comments on Draft Terrestrial Wildlife (TERR-2) Technical Report

Date: 5/28/2024 1:16:36 PM



Page: 10

Author: Daniel Anderson

Before the dam was implemented, in a drought year would the ponds always go dry?

C-08_CDFW Comments on Terrestrial Wildlife (TERR-2) Technical Report

 Page: 12 Author: Daniel Anderson


Were there previously nesting sites in the area?

 Page: 12 Author: Daniel Anderson

Has the dam caused consistent increased flows in any areas? In years of excess snowmelt, is it possible the dam restricts natural water diversion, increasing flows, and reducing suitable habitat for flycatchers?

 Page: 12 Author: Daniel Anderson

Is 3 cameras sufficient?

 Page: 20 Author: Daniel Anderson

Relevance of predatory animals not noted. 1 DNA sample sent, but are there any other plans to consider their impact as keystone species? Is there absence or presence insignificant?


C-08_CDFW Comments on Terrestrial Wildlife (TERR-2) Technical Report

 Page: 24 Author: Daniel Anderson

Are any other dense foliage (suitable nesting sites) areas impacted by project?

 Page: 24 Author: Daniel Anderson

Has reduced and/or modified flow had an impact on the willow populations? Are there any areas of the site that either promote overly dense willow habitat or lack of sufficient willows completely?

 Page: 25 Author: Daniel Anderson

What role do bighorn sheep play in the project area ecosystem? Positive, negative? Are there any water sources in the area known to have more sheep than the others?


C-08_CDFW Comments on Terrestrial Wildlife (TERR-2) Technical Report

 Page: 27 Author: Daniel Anderson

Have trail cameras been used? Have toga lake inlets been added?

 Page: 27 Author: Daniel Anderson

Could surveying these 12 ponds create helpful comparable data between YOTO populations within and outside of the project area? As YOTO females go to higher elevations after breeding, maybe those ponds could be a good indicator of fitness levels in the project area population.

 Page: 46 Author: Daniel Anderson

Should stocking data and disease trend data be correlated with YOTO survival to identify more clear understanding?


C-08_CDFW Comments on Terrestrial Wildlife (TERR-2) Technical Report

 Page: 49 Author: Daniel Anderson


Upland suitable habitat and nesting areas should be monitored.

 Page: 49 Author: Guest 1

Please add which Critical Habitat Unit this project is located in. There is specific language in the Critical Habitat rule which talks about the physical and biological features within each Unit where special management considerations may be required. See page 59082 in the Federal Register Notice for Yosemite toad Critical Habitat.


 Page: 49 Author: Daniel Anderson

Critical habitat is determinable...not sure if this is enough info

 Page: 50 Author: Daniel Anderson

How is the ecological impact of the dam affected by heavy or low snow years?

C-08_CDFW Comments on Terrestrial Wildlife (TERR-2) Technical Report

 Page: 52 Author: Daniel Anderson

Are enough cameras in appropriate locations?

 Page: 52 Author: Daniel Anderson

Could the dams impact on the water cycle and local biodiversity have an impact on YOTO outside of 200 ft buffer zone?




Page: 53

Author: Daniel Anderson

Is there a pattern year for YOTO breeding?


C-08_CDFW Comments on Terrestrial Wildlife (TERR-2) Technical Report

 Page: 54 Author: Daniel Anderson


What is the plan to increase YOTO #s after a 50% decline?

 Page: 54 Author: Daniel Anderson


Does project impact any YOTO prey species?

 Page: 55 Author: Daniel Anderson


Should surveillance be increased around snowmelt?

 Page: 56 Author: Daniel Anderson


Should correlation between YOTO survival and chytrid fungus, roads, and grazing proximity be more closely monitored to determine the most serious threat?

 Page: 62 Author: Daniel Anderson


When does the distance between disconnected YOTO patches become too far for reliable migration?

 Page: 65 Author: Daniel Anderson

Instead of focusing on the breeding habitat, where their presence is short and identification difficult, maybe upland suitable habitat should be prioritized to provide more data.

 Page: 66 Author: Daniel Anderson

Seems unlikely there are no consistent patterns in differences between occupied and unoccupied areas.

 Page: 71 Author: Daniel Anderson

Should relationship and interaction levels between YOTO and tree frog be more closely monitored?

 Page: 80 Author: Daniel Anderson

Overarching concerns: Lack of data from 2022-2023 field seasons may require another season of research before agreement is extended

Many suitable habitat areas are devoid of YOTO, especially compared to previously, are the dams a contributing factor?


Upland areas should be studied to compare YOTO populations to the project area.

How is YOTO impacted by stocking and disease rates?

Would improved water diversion tactics during a year of excess snowmelt provide YOTO with more suitable shallow water habitat?

Is the lack of willow catcher nesting sites related to the dam?

Should indicator species be surveyed more consistently?

 Page: 80 Author: Daniel Anderson

Lack of historical data provided as well, at least in terms of clearly understanding whether the project is impacting species sustainability.

From: [Carissa Shoemaker](#)
To: adam.cohen@waterboards.ca.gov; beth.lawson@wildlife.ca.gov; bryan.muro@waterboards.ca.gov; [Meese, Graham@Wildlife](#); tristan.leong@usda.gov; [Greg Reis](#); [Bartshe Miller](#)
Cc: [Matthew Woodhall](#); [Martin Ostendorf](#); [Shannon Luoma](#); [Finlay Anderson](#); [Bret Hoffman](#)
Subject: Lee Vining Operations Model for review
Date: Friday, June 7, 2024 10:16:00 AM
Attachments: [image001.jpg](#)
[LV AQ-5 Ops Model Tech Report.pdf](#)
[LV_ops_model_060724.xlsx](#)

Hello!

Attached is a copy of the working Lee Vining Operations Model. Bret Hoffman has highlighted cells that can be manipulated.

I've also attached the AQ-5 Operations Model report for reference.

Notes from Bret:

As discussed, a lot of information examined during the development of the model is still present, just not used in the actual model calculations. I left it all in there and will try to note what it was for, but that is not critical. Just note that actual calcs and their bases are all from the model tab.

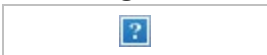
A suggestion for use would be to start by adjusting values in the green highlighted cells on the summary tab, see results for percentages there (I'm still adding those metrics and will send out updates as they are completed); also look at the model tab for daily actual calcs/results, and the output graphs for a few examples of additional impacts. I'm looking for your input on additional metrics and graphs that may be of value. Another graphic source of reservoir effects from adjustments is on the storage tab, which graphically shows the results of model run with reservoir levels versus historic, based on year type.

I was not able to find the release capacity from the reservoir outlets, but USGS records indicate the maximum for Saddlebag is 63 cfs when the reservoir is not spilling. Similarly, the maximum flow recorded at Glacier Creek when Tioga is below the spill capacity is 63 cfs.

Please play around with the model and have your questions, scenarios, and metrics ideas ready to discuss at our upcoming June 27 working session.

Thanks everyone!

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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SOUTHERN CALIFORNIA EDISON Lee Vining Hydroelectric Project (FERC Project No. 1388)



OPERATIONS MODELING STUDY (AQ-5) DRAFT TECHNICAL REPORT



APRIL 2024

SOUTHERN CALIFORNIA EDISON

Lee Vining Hydroelectric Project
(FERC Project No. 1388)

OPERATIONS MODELING STUDY (AQ-5) DRAFT TECHNICAL REPORT

Southern California Edison
2244 Walnut Grove Ave.
Rosemead, CA 91770

April 2024

Support from:

Kleinschmidt

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LIST OF ACRONYMS AND ABBREVIATIONS

AF	acre-feet
ANOVA	Analysis of Variance
CDFW	California Department of Fish and Wildlife
DEM	digital elevation model
FERC	Federal Energy Regulatory Commission
HEC-RAS	Hydrologic Engineering Center River Analysis System
LADWP	Los Angeles Department of Water and Power
LiDAR	Light Detection and Ranging imagery
NOI	Notice of Intent
PAD	Pre-Application Document
Project	Lee Vining Hydroelectric Project (FERC Project No. 1388)
SCE	Southern California Edison
TWG	Technical Working Group
USFS	U.S. Forest Service

1.0 INTRODUCTION

During the initial Technical Working Group (TWG) meetings held January 25, February 22, March 29, and May 24, 2021, Southern California Edison (SCE) and Stakeholders identified the need to develop an operations model and intraday hydraulic model to help identify key hydraulic and hydrologic connections among the components of the Lee Vining Hydroelectric Project, Federal Energy Regulatory Commission (FERC) Project No. 1388 (Project).

The final *AQ-5 Operations Model Technical Study Plan* was filed with FERC on April 25, 2022 (SCE, 2022b). This technical report summarizes the development and application of the two models created to simulate Project operations relative to water allocation in support studies for AQ-5 conducted on the aquatic and riparian environment and effects of hydraulics in locations of recreational interest.

2.0 STUDY GOALS AND OBJECTIVES

- Develop a robust operations model to assist SCE and Stakeholders in understanding how Project operations interact with Lee Vining hydrology. This model will be used to make informed decisions regarding the implementation of and results from other relicensing studies. To meet this goal, the Study Plan included the following objectives:
 - Accurately model the systems inflows, outflows, and generation nodes.
 - Align model with needs of other relicensing studies and information needs.
 - Develop procedures to configure model for alternative operational scenarios and document results.
- Determine effective operating limits the Poole Powerhouse to accurately represent installed and dependable capacity for licensing documents.
- Determine the frequency, magnitude, duration, and seasonality of intraday releases from the Poole Powerhouse in response to hydro-resource optimization needs.
- Describe the stage/discharge relationship at discreet locations between the Poole Powerhouse and the Los Angeles Department of Water and Power (LADWP) diversion.

2.1. STUDY AREA

The study includes all Project influenced waters including bypass reaches and reservoirs beginning in the Project Area and continuing downstream to the LADWP Diversion Dam.

3.0 METHODS

The development of two models was identified in initial study scoping and consisted of a comprehensive system hydrologic model and a focused hydraulic model on select reaches of Lee Vining Creek. The larger operations model uses daily data input and time steps and is useful to evaluate hydrologic resource availability and allocation. The more focused intraday model uses 15-minute data to focus attention on flow events downstream of the powerhouse. System constraints, operational criteria, and operational practices were provided by SCE for both model efforts and reflect baseline conditions.

4.0 OPERATIONS MODEL DESCRIPTION

The operations model was developed as an Excel-based platform to facilitate user accessibility. Using information supplied by SCE, available flow data downloaded from U.S. Geological Survey (USGS), and snow course measurement data from National Resource Conservation Service, logic was developed to allocate hydrologic resources on a daily temporal resolution.

The Excel-based file containing the operations model is divided into tabs for user input and results, hydrologic contributions and hydraulic attributes, and logic for flow allocation. Metrics for comparing changes to the baseline of operations have yet to be developed and may constitute the basis of additional results tabs or graphs. Separate tabs for snowpack measurements, streamflow hydrologic datasets and comparisons, and reservoir stage-storage tables are used as datasets for inflow, determination of water year type, and operating logic thresholds. Daily flow allocations and resulting reservoir storage values and flows in each reach of the system are all calculated on the model tab. Columns within the model tab are titled to represent physical elements of the Project, or nodes where logic governs daily flow at that location within the system. The summary tab has inputs for flow targets at set locations of interest along a schematic representation of the Project (see Figure 4-1) and allows changes to seasonal flow targets.

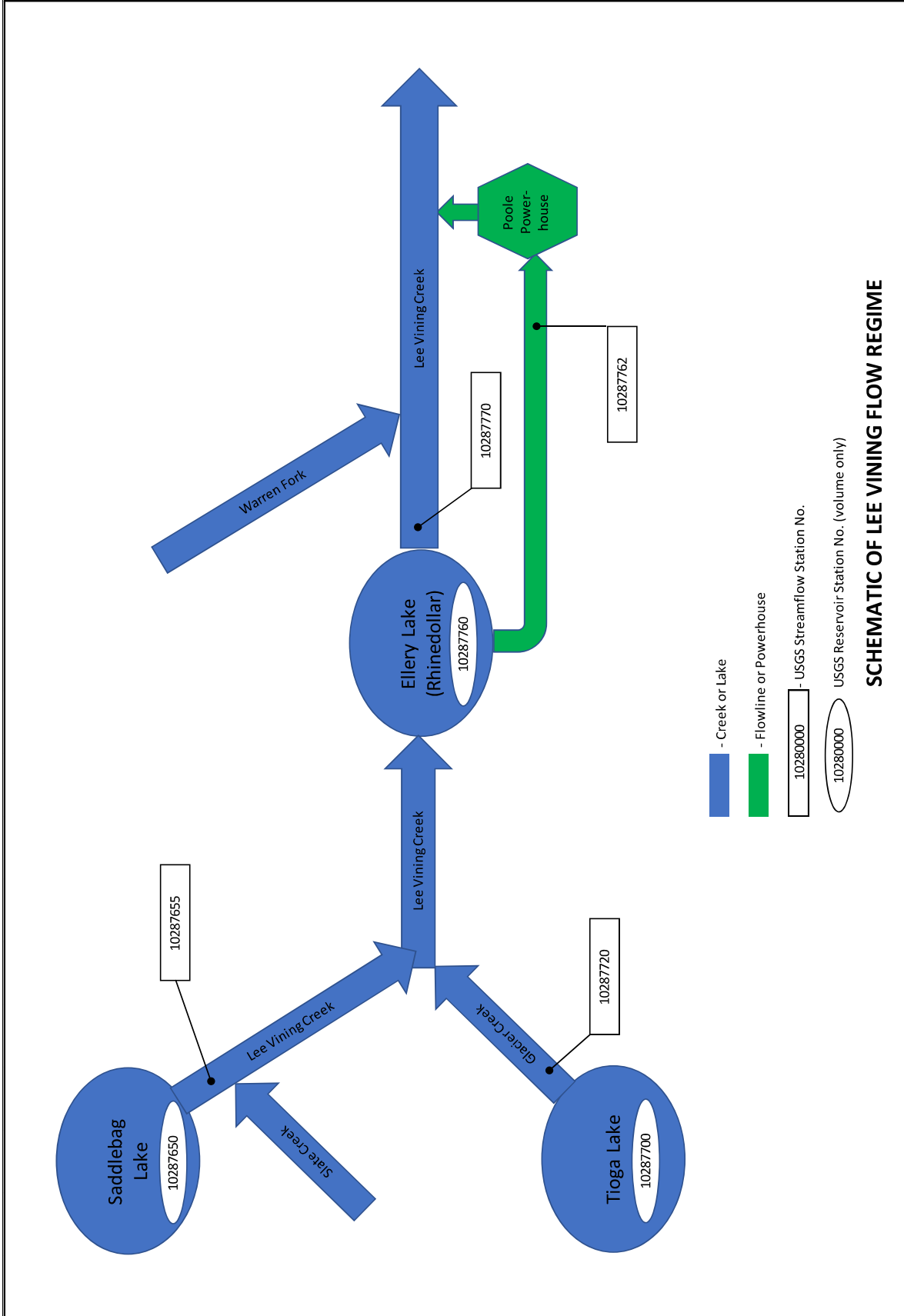


Figure 4-1. Lee Vining Creek Flow Routing.

4.1. FLOW AND STORAGE INPUTS

Storage records for the three Project reservoirs extend back to October 1989, as do total Project releases through combined records of the Poole Powerhouse intake and Lee Vining Creek below Rhinedollar Dam. However, data availability for flow releases below Saddlebag and Tioga Lakes begin in October of 1997 and are necessary for calculating inflows to these storage reservoirs. Therefore, 1997 was selected as the start of the model period of record to allow these critical inflow calculations while maximizing daily calculations to a 25-year period of record. A summary of available flow and storage data within the Project Vicinity is provided in Table 4.1-1.

Table 4.1-1. Hydrologic Data Sources within Project Area

USGS No.	Description	Data Type	Period of Record
10287655	Lee Vining Creek below Saddlebag Lake near Lee Vining, California	flow cfs	10/01/1997 to current
10287650	Saddlebag Lake near Lee Vining, California	storage AF	10/01/1989 to current
10287700	Tioga Lake near Lee Vining, California	storage AF	10/01/1989 to 09/30/2020
10287720	Glacier Creek below Tioga Lake near Lee Vining, California	flow cfs	10/01/1997 to current
10287760	Ellery Lake near Lee Vining, California	storage AF	10/01/1989 to current
10287770	Lee Vining Creek below Rhinedollar Dam near Lee Vining, California	flow cfs	10/01/1987 to current
10287762	Poole Powerhouse Conduit Intake near Lee Vining, California	flow cfs	10/01/1989 to current
10287780	Lee Vining Creek below Poole Powerhouse near Lee Vining, California	flow cfs	04/29/1999 to 09/30/2001
10287900	Lee Vining Creek near Lee Vining, California	flow cfs	10/01/1934 to 12/31/1979
NA	LADWP Diversion Dam	flow cfs	05/01/2013 to 09/30/2022

AF = acre-feet; cfs = cubic feet per second; NA = not applicable; USGS = U.S. Geological Survey

Stage-storage datasets for all three reservoirs were provided by SCE and were used in calculating daily storage based on inputs for release and the inflow datasets.

Model inflows were calculated for Saddlebag and Tioga Lakes using a mass balance method. Daily change in storage was calculated (whether positive or negative) and added to the daily average release below the respective reservoir, resulting in net daily inflows. These inflow datasets are used in the model logic in lieu of historic data, as inflow to the system is independent of how water is allocated. This permits the modeled allocation of hydrologic resource based on current release requirements and operational practices, as

well as alternative proposed timing and magnitude of those allocations for comparison to the historic baseline.

Significant errors in the Saddlebag Lake calculated inflow dataset were observed, and corrective measures taken to eliminate model logic errors. While very minor negative inflows could theoretically occur due to evaporation or gage influence from wind, the size of the reservoir would limit these effects. Because the negative inflows typically followed and/or preceded significantly higher offsetting inflow calculations, corrective measures did not require supplemental contributions; rather, daily storage values were adjusted to smooth the calculated inflows. While a floor function was still needed in model logic for smaller occurrences, this corrective effort limited the errant effect on hydrology. A threshold of negative 10 cfs average daily inflow was selected for correction.

Seasonal gaps in the Tioga Lake flow release and storage datasets during winter months prevent a continuous inflow dataset based on mass balance for most years. During these gaps, inflow was calculated based on the Saddlebag Lake inflow dataset, prorated to the Tioga drainage area.

Historic inflows to Ellery Lake were calculated as the daily mass balance of storage change plus the total releases (the sum of Poole Intake flows plus bypass flows below Rhinedollar Dam). Unimpaired inflows to Ellery Lake were calculated using the historic inflow dataset minus storage changes in Saddlebag and Tioga Lakes, which negated the effect of capturing inflow or supplementing releases from those reservoirs.

For unregulated flows downstream of Rhinedollar Dam (including Warren Fork contributions), a correlation was developed between the calculated unimpaired inflows to Ellery Lake and calculated inflows to the unregulated downstream reach between Rhinedollar Dam and the LADWP Diversion Dam. Deducting historical Rhinedollar Dam total releases from daily LADWP Diversion Dam flows provided a 9-year dataset of unregulated flows in that reach. This dataset was correlated to the unimpaired Rhinedollar Dam inflow dataset on a monthly total acre-feet (AF) basis to minimize the effect of errors associated with both travel time between the upper and lower reaches as well as daily reservoir storage anomalies. The relationship between the unregulated contributions and unimpaired Rhinedollar Dam inflows is shown with the equation and r-squared value in Figure 4.1-1. This correlation was then applied to the unimpaired inflow dataset for the remaining period of record, extending the inflow dataset between Rhinedollar Dam and the LADWP Diversion Dam to match the model 25-year period of record. Daily flow contributions for the bypass reach between Rhinedollar Dam and Poole Powerhouse were calculated based upon the proportional drainage area of the Rhinedollar/LADWP inflow dataset and added to the Poole Powerhouse flows in the model for total Lee Vining flows exiting the Project at the Poole Powerhouse tailrace (see Table 4.1-2).

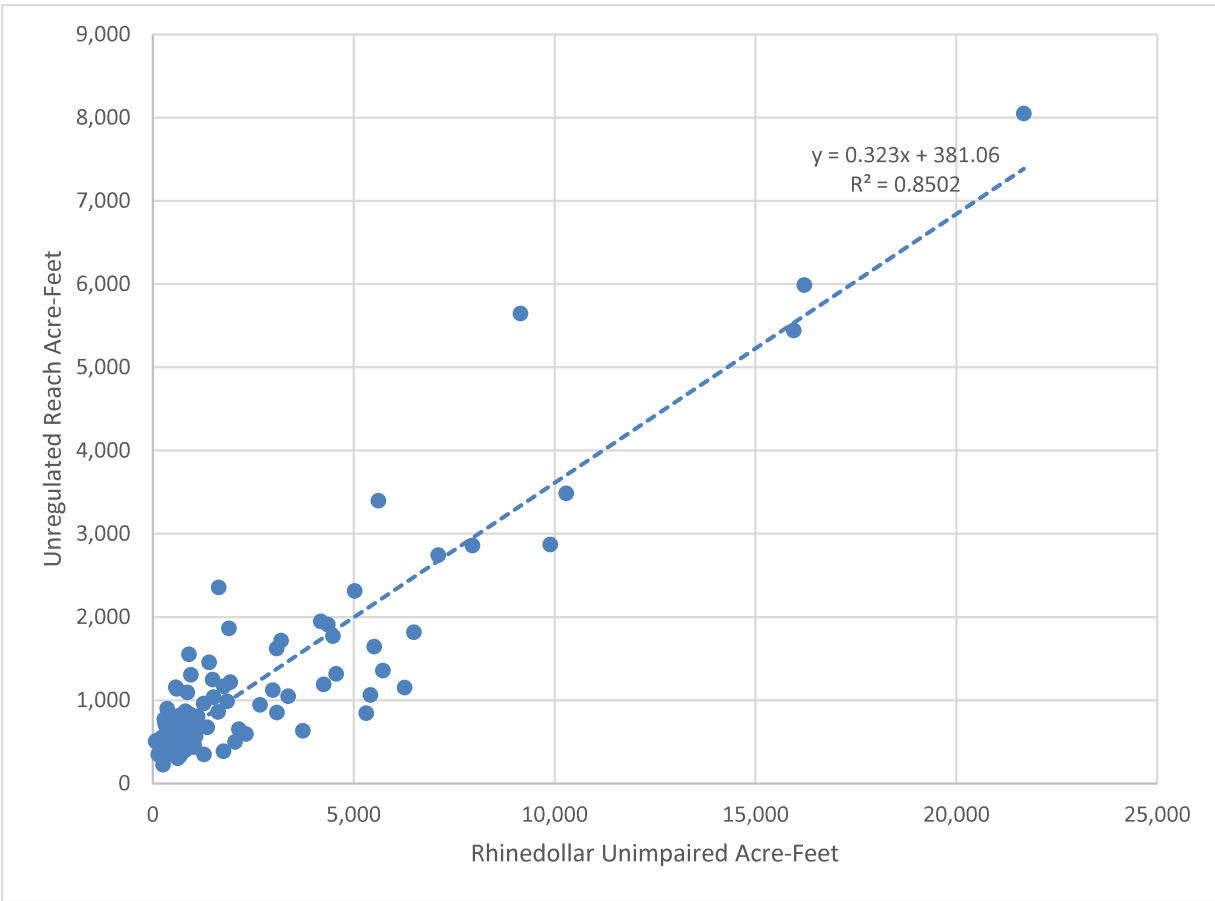


Figure 4.1-1. Correlation of Unregulated Reach to Rhinedollar Unimpaired Inflows (monthly acre-feet).

Table 4.1-2. Acre-Feet of Unregulated Flow in Lee Vining Drainage at Poole Powerhouse

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1997-1998	690	647	399	601	1,260	1,140	771	2,196	13,003	16,451	4,684	1,978	43,819
1998-1999	719	436	414	843	710	553	1,105	8,491	12,106	5,645	1,864	936	33,822
1999-2000	394	538	364	555	576	401	1,762	8,291	9,983	3,047	1,836	619	28,366
2000-2001	459	294	285	414	489	803	2,105	10,172	3,222	2,001	1,052	492	21,787
2001-2002	235	586	770	487	447	661	2,824	7,216	8,990	3,443	1,036	610	27,306
2002-2003	160	766	906	672	660	830	1,283	8,218	12,523	4,556	1,361	633	32,567
2003-2004	615	560	1,032	709	832	1,688	3,534	6,801	7,466	3,302	1,348	493	28,380
2004-2005	791	908	999	1,457	860	1,084	1,396	9,950	13,906	12,859	3,252	832	48,293
2005-2006	662	1,470	1,200	1,178	799	1,123	1,327	10,499	21,195	12,399	3,086	1,145	56,082
2006-2007	886	1,214	1,236	847	163	925	1,866	6,683	4,458	1,903	973	568	21,721
2007-2008	469	385	709	852	652	661	1,522	7,060	9,263	3,703	943	482	26,703
2008-2009	461	774	698	611	636	1,015	2,550	10,845	8,104	4,884	1,568	523	32,671
2009-2010	1,054	679	789	847	789	850	1,356	3,353	16,148	8,594	1,776	584	36,818
2010-2011	1,807	1,779	3,419	1,610	986	1,104	1,904	4,479	15,740	16,137	6,108	2,364	57,436
2011-2012	1,368	557	375	453	335	652	2,618	6,651	3,635	1,899	1,277	549	20,369
2012-2013	458	624	979	495	445	868	3,189	6,199	5,224	2,256	720	457	21,914
2013-2014	404	349	514	404	630	680	2,419	5,862	4,750	1,944	993	395	19,345
2014-2015	322	453	509	388	514	815	1,425	4,003	3,807	2,258	693	448	15,634
2015-2016	816	819	1,089	909	794	1,343	3,061	7,261	11,094	3,912	1,278	549	32,925
2016-2017	1,638	1,383	1,175	2,008	1,490	1,550	2,622	11,512	25,040	18,716	7,037	2,673	76,843
2017-2018	1,076	1,053	733	611	593	1,192	5,154	9,148	8,252	4,998	2,013	882	35,704
2018-2019	702	573	535	710	981	687	2,435	5,992	18,224	11,744	3,760	1,315	47,656
2019-2020	629	632	910	633	508	695	2,259	6,752	3,457	1,671	1,090	607	19,842
2020-2021	283	441	499	525	283	579	1,925	5,668	3,444	1,454	639	350	16,090
2021-2022	963	1,221	1,209	756	523	1,009	2,570	6,296	5,114	1,986	1,310	748	23,705
Average	722	766	870	783	678	916	2,199	7,184	9,926	6,070	2,068	849	33,032

Figure 4.1-2 and Figure 4.1-3 represent the reservoir observed average monthly storage for dry, normal, and wet water years. The stage-storage curves used to determine minimum and maximum storage and spill thresholds were included in the operations model.

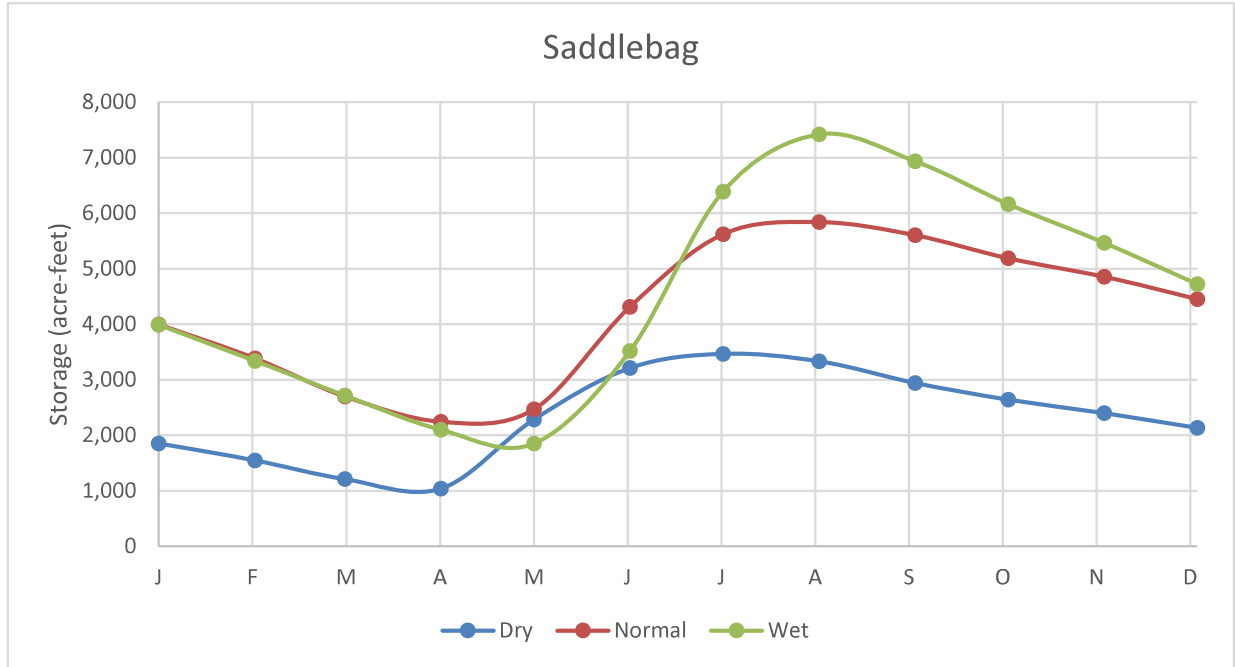


Figure 4.1-2. Saddlebag Lake Historic Monthly Averages for Year Types.

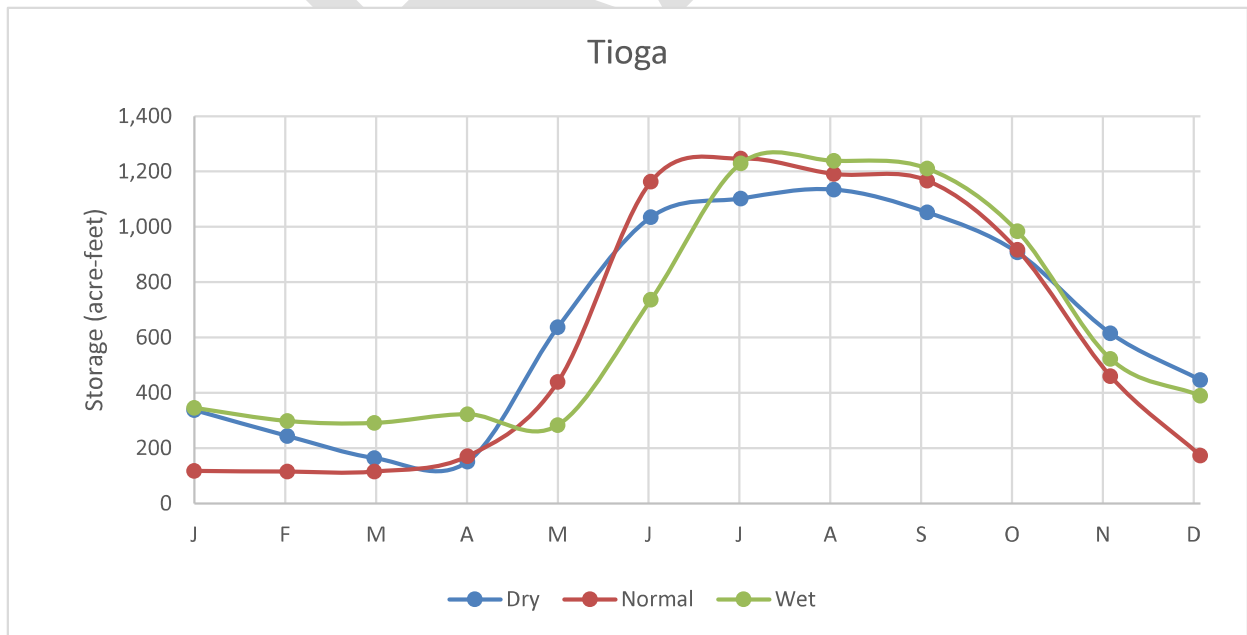


Figure 4.1-3. Tioga Lake Historic Monthly Averages for Year Types.

4.2. MODEL CALCULATION LOGIC

Physical constraints that confine the Lee Vining system are represented within the model as the basic structure for hydraulic thresholds. The hydraulic capacity of the Poole Powerhouse and the storage capacities and spill thresholds of the three reservoirs determine upper limits for flow through the turbine and thresholds for triggering spill from reservoirs. Likewise, lower limits within storage capacities for upper reservoirs are fixed to trigger (or inflow) releases. These bounding values constrain primary model calculations.

Within the physical logic constraints, daily minimum flow allocations are prioritized to meet regulatory requirements, adjusted where appropriate for seasonality and water year type according to the current license. Operational practices follow as tertiary logic, such as increased releases from Tioga Lake in the fall to achieve seasonal reservoir drawdown. Flows released from Ellery Lake are prioritized through Poole Powerhouse up to the hydraulic capacity, above which they are spilled. Water year types are determined based upon spring snow measurements at the Dana Meadows course and used to categorize each year as wet, normal, or dry. Wet and dry years are calculated as having snow course measurements 30 percent higher or lower than the annual average.

4.3. CALIBRATION

Hydrologic calibration was performed using a mass balance comparison of total daily Project outflow calculated by the model versus the sum of outflows measured by the USGS gages at the Poole Powerhouse intake and below Rhinedollar Dam (Figure 4.3-1). Annual totals and monthly averages were examined and based on the results of annual average total AF; no additional adjustments were made to inflows. The model-calculated total annual average run-off was 27,620 AF versus a total historic measured average of 27,615 AF.

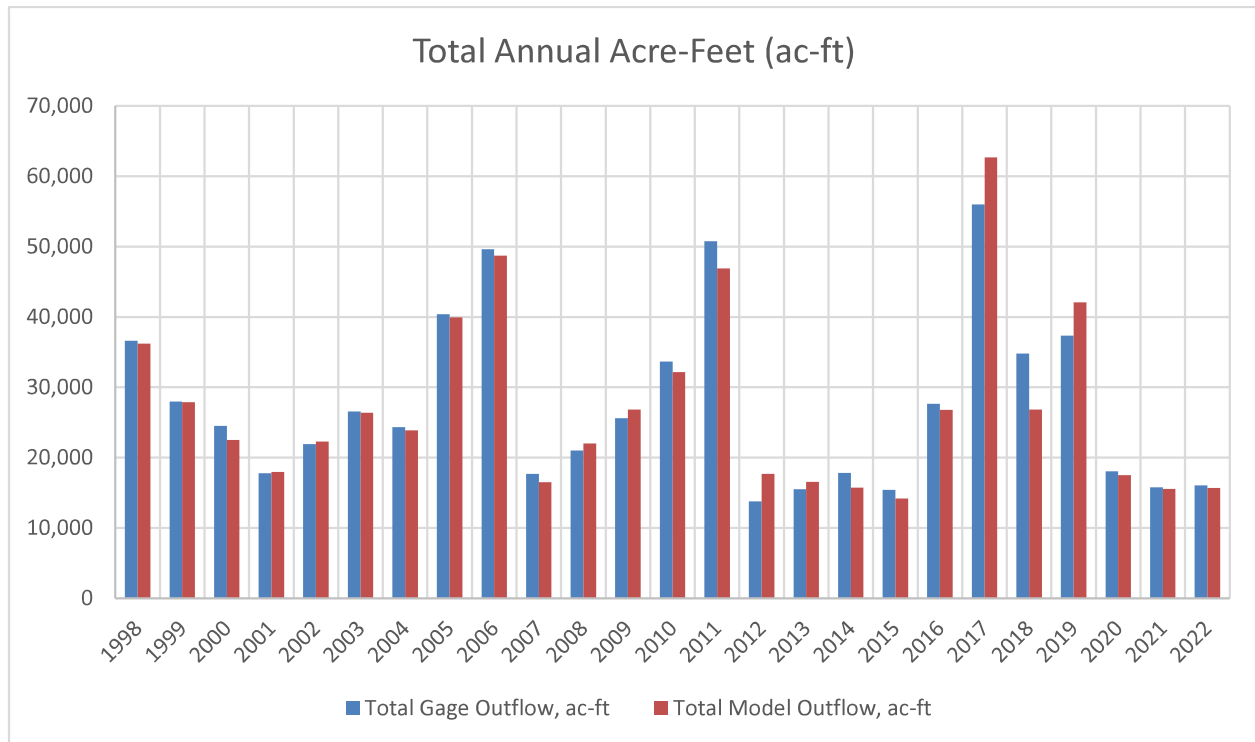


Figure 4.3-1. Annual Outflow.

4.4. APPLICATION AND RESULTS

The intent of the operations model is to measure the ability of the Lee Vining system to meet flow targets that may be beneficial as determined by studies conducted in support of the licensing process. Flow allocations that enhance various reaches can be entered into the model as alternative scenarios to the current baseline conditions. Flow targets may be set independently for seasonality (up to four settings per year) as well as for dry, normal, and wet years. The model as developed distributes flows in accordance with regulatory requirements within physical constraints and closely matches historically measured hydrologic availability. Metrics for comparison of alternative scenarios with the baseline are pending consultation for Stakeholder interest but are anticipated to include percentage of missed target flows for each location of specified interest.

5.0 INTRADAY AND HYDRAULIC MODEL DESCRIPTION

In accordance with the revised Technical Study Plan (SCE, 2022a), an intraday model was developed to quantify the frequency, magnitude, duration, and seasonality of intraday releases from Poole Powerhouse in response to hydro-resource optimization needs. This model was developed using Python code in a Jupyter Notebook. Additionally, a hydraulic model was developed using the Hydrologic Engineering Center River Analysis System (HEC-RAS) version 6.3.1 to describe the stage-discharge relationship at Poole Powerhouse and in the downstream channel.

5.1. FLOW AND PRICING DATA

Several datasets were obtained for use in the intraday model and hydraulic model. These data sets are summarized below in Table 5.1-1.

Table 5.1-1. Data Sources for Intraday and Hydraulic Model

Data Description	Date Range	Source
Powerhouse and Spillway Flow	October 2009 to August 2023	SCE
LADWP Flow	May 2013 to August 2023	SCE
Generation Data	January 2015 to October 2023	SCE
Cross section survey in downstream reach	N/A	Stillwater Sciences
LiDAR imagery DEM	N/A	HDR, provided by SCE

DEM = digital elevation model; LADWP = Los Angeles Department of Water and Power; LiDAR = Light Detection and Ranging; N/A = data not available

5.2. MODEL LOGIC

The hydro-resource optimization events are clearly distinguishable by human eye in the flow data but are challenging to systematically identify using an algorithm, as shown in Figure 5.2-1. Key components of a hydro-resource optimization event were identified as follows:

- Events are characterized by a steep rise and fall in flow compared to flows at neighboring time steps.
- Each event has a specific peak timestep (flow is not held at the peak for an extended period).
- The magnitude of the event is much smaller than that of seasonal changes in flow or flood events.
- Events are relatively short in duration (occur over the course of 1 day [i.e., “intraday”]).



Figure 5.2-1. Flow in Lee Vining Creek Downstream of Poole Powerhouse.

To sufficiently capture the hydro-resource optimization events in Lee Vining Creek, the intraday model uses a Python algorithm to capture sudden changes in flow. The model uses total flows (including spill) to better represent effects in the downstream reach compared to using solely powerhouse flow. Hydro-resource optimization events are captured using a moving average algorithm to compare flows at each timestep to the average of recently preceding flows. The moving average algorithm allows suppression of seasonal or flood-related changes in flow as the larger events have gradual changes in flow. A simple value-threshold method would not correctly represent the seasonality and ranges of possible flows in the system.

5.3. MODEL CALIBRATION

The intraday model was calibrated using the moving average variables, including the length of the rolling window, standard deviations above the rolling mean, a minimum threshold for magnitude, and a maximum threshold for event duration. Both flow and generation data were analyzed using the same algorithm, but with different calibration parameters.

As the assumed hydro-resource optimization events are more visually identifiable in the generation data, the events identified by the algorithm were compared to visual plots of known events. The calibration parameters were adjusted to best match the known events to the model identified events using best engineering judgment. The events identified by the intraday model algorithm were used to calibrate the calibration parameters for the flow. Specifically, the flow calibration parameters were optimized to maximize both the percent of flow peaks occurring during generation peaks and the total number of flow peaks identified in the model. This allowed the calibration to be robust enough to identify true hydro-resource optimization events of different magnitudes, shapes, and durations while avoiding extraneous events. The result of the calibration showed that during the periods where both flow and generation data are available, the model identified 931 hydro-resource optimization events, 82 percent of which directly corresponded with a generation peak event. For example, Figure 5.3-1 shows flow for the month of November 2015. The blue line represents total flow in Lee Vining Creek and the green line represents assumed hydro-resource optimization events identified by the intraday model algorithm. Figure 5.3-2 shows the same results for February 2016 as another example.

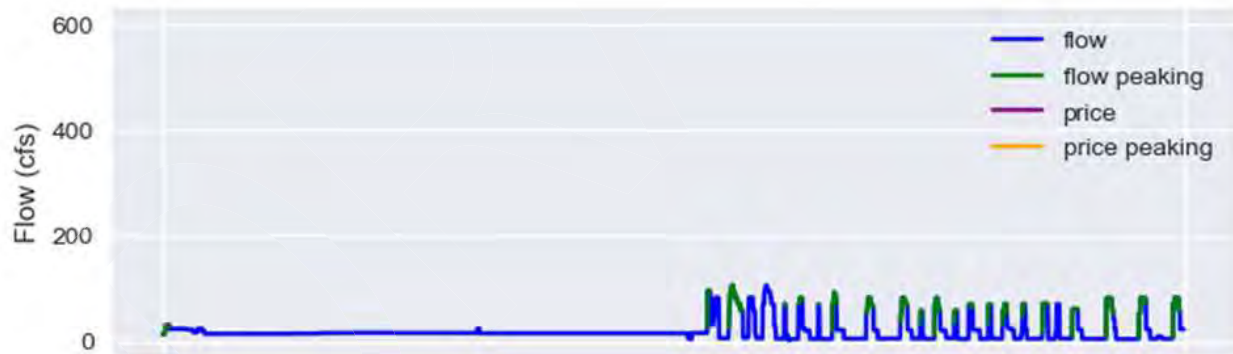


Figure 5.3-1. November 2015 Model Results.

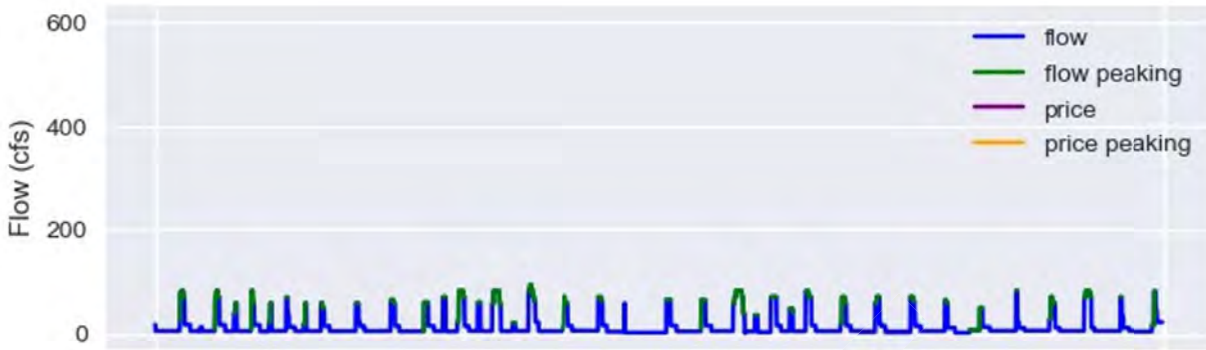


Figure 5.3-2. February 2016 Model Results.

The calibration parameters were applied to the period of record for the flow, allowing the identification and characterization of hydro-resource optimization events that occurred between October 2009 and August 2023.

However, the relationship between generation increases and hydro-resource optimization is not straightforward. Figure 5.3-3 shows the probability of flow peaking occurring due to changes in price. The likelihood of a hydro-resource optimization event increases steadily as the price increases up to about \$20 (approximately 16 percent of the price), after which the likelihood of flow peaking decreases gradually. Note that this plot excludes outliers where the increase in price is greater than \$100 (approximately 4 percent of the price). These outliers do not predict a noticeable trend in flow peaking probability.

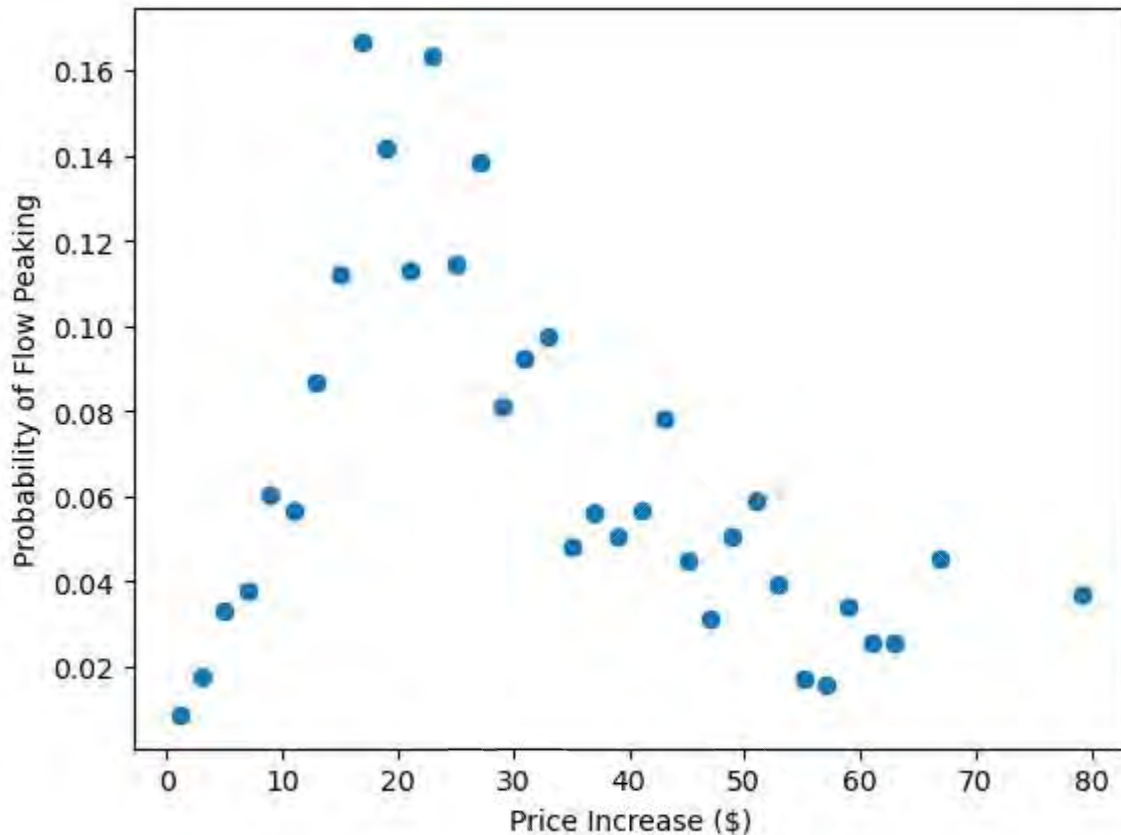


Figure 5.3-3. Probability of Flow Peaking based on Increase in Price.

5.4. APPLICATION AND RESULTS

The intraday model yielded tabular results, providing information on the duration and magnitude of hydro-resource optimization events that occurred over the period of record. Using the tabular data, summary statistics on the frequency, duration, magnitude, and seasonality of these events can be calculated. Overall, the duration of flow peaking events pre and post operations did not change (T-test p-value = 0.53), but the magnitude of the events changed significantly (T-test p-value = $3.1e-13$). However, these statistics are inherently skewed for frequency as there are very few flow events prior to 2015 that show characteristics in line with the hydro-resource optimization events. Based on the lack of events prior to the operation shift, a T-test was not conducted for the frequency of events.

5.4.1. RESULTS BY SEASON

A one-way Analysis of Variance (ANOVA) test indicated that the change in magnitude of assumed hydro-resource optimization events was significant before and after the operations shift, even though different seasons (p-value = $0.8e-3$). However, the duration and frequency of the identified hydro-resource optimization events showed no difference before and after the operations shift regardless of seasons using one-way ANOVA tests (p-values of 0.55 and 0.08, respectively).

Summary tables are provided by season and by water year type below in Table 5.4-1 through Table 5.4-3. These tables summarize the magnitude, duration, and frequency of hydro-resource optimization events due to the operations shift.

Table 5.4-1. Duration (hours) of Hydro-Resource Optimization Events by Season

Season	2010–2014	2015–2023
Fall	5.13	3.71
Winter	3.29	2.99
Spring	2.53	4.03
Summer	3.38	5.49

Table 5.4-2. Magnitude (cubic feet per second) of Hydro-Resource Optimization Events by Season

Season	2010–2014	2015–2023
Fall	41.57	67.42
Winter	19.71	60.80
Spring	26.78	65.49
Summer	11.74	66.82

cfs = cubic feet per second

Table 5.4-3. Frequency (Average Number of Hydro-Resource Optimization Events per Season) by Season

Season	2010–2014	2015–2023
Fall	1	28.13
Winter	1.4	37.78
Spring	1.6	21.89
Summer	0.4	18.78

5.4.2. RESULTS BY WATER YEAR TYPE

One-way ANOVA tests indicated that the change in magnitude and frequency of hydro-resource optimization events was significant before and after the operations shift across various water year types. However, the duration of the identified hydro-resource optimization events showed no difference before and after the operations shift regardless of seasons using one-way ANOVA tests.

Table 5.4-4 summarizes the distribution of water year type that is documented by SCE from 2009 to 2021. Table 5.4-5 through Table 5.4-7 show the duration, magnitude, and frequency of hydro-resource optimization events organized by water year.

Table 5.4-4. Distribution of Water Year Type

Dry Years	Normal Years	Wet Years
2012	2009	2011
2013	2010	2017
2014	2016	2019
2015	2018	
2020		
2021		

Table 5.4-5. Duration (hours) of Hydro-Resource Optimization Events by Water Year Type

Season	2010–2014	2015–2023
Dry	4.50	4.32
Normal	4.05	3.91
Wet	1.94	4.06

Table 5.4-6. Magnitude (cubic feet per second) of Hydro-Resource Optimization Events by Water Year Type

Season	2010–2014	2015–2023
Dry	29.63	61.43
Normal	19.81	65.20
Wet	28.71	56.81

Table 5.4-7. Frequency (Average Number of Hydro-Resource Optimization Events per Water Year) by Water Year Type

Season	2010–2014	2015–2023
Dry	3.33	79.33
Normal	2.5	153.5
Wet	8	67

5.5. HYDRAULIC MODEL

5.5.1. HYDRAULIC MODEL DEVELOPMENT

To help interpret the results from the intraday statistical model, a one-dimensional hydraulic model was developed to quantify effects on depths and velocities in the Lee Vining Creek downstream of Poole Powerhouse. The hydraulic model was built in HEC-RAS version 6.3.1 and used a combination of surveyed cross sections collected by Stillwater Sciences in 2022, and a Light Detection and Ranging imagery (LiDAR) digital elevation model (DEM) from a previous flood study by HDR. Upon investigation of the LiDAR DEM and the surveyed cross sections, it was determined that the LiDAR DEM needed to be adjusted by 2.5 feet to correctly match the North American Vertical Datum of 1988 (NAVD88 datum). This was an approximation based on best engineering judgment, as the surveyed cross sections and the DEM were clearly disjointed from each other. However, as the use of this model is primarily for changes in depths and velocities, this approximation is not expected to create issues in results.

Figure 5.5-1 below shows the layout of the hydraulic model. The model extends from just upstream of the intersection with Poole Power Plant Road to the Big Bend Campground. Note that the cross sections data was supplemented by LiDAR DEM information. Cross sections were interpolated in between survey information to provide the best estimate of channel geometry along the entire reach.



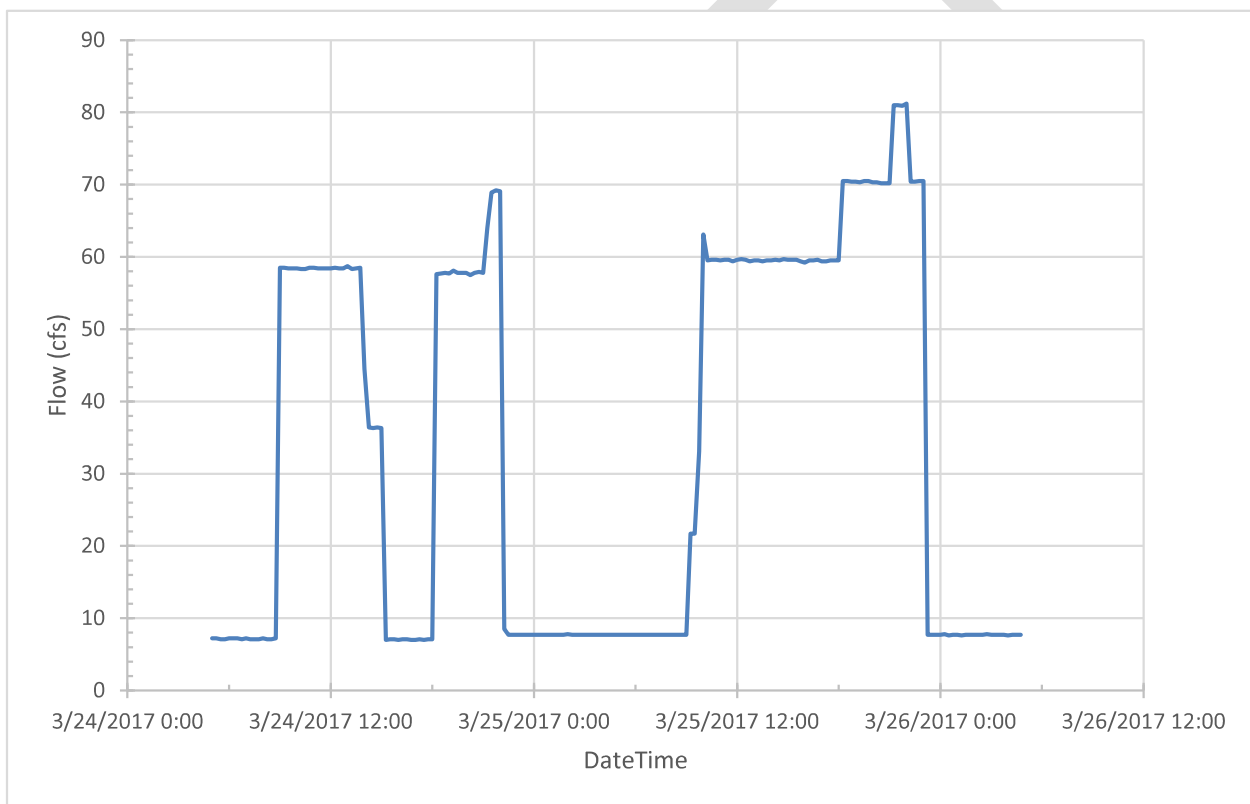
Note: The collected cross section points are included in pink, while the cross sections included in the hydraulic model are shown as green lines.

Figure 5.5-1. Hydraulic Model Geometry.

Manning's roughness coefficients for the model were selected using methodology from Chow's 1959 guidance on Manning's n values (Chow, 1959). Based on photos of the channel, Manning's n roughness coefficient selected for the channel was 0.045, which is consistent for main channels with some pools, shoals, weeds, and stones. The floodplain roughness coefficient was 0.1, which is appropriate for heavy timber with some down trees and little undergrowth.

5.5.2. HYDRAULIC MODEL SAMPLE RESULTS

A historical event was run in the hydraulic model to provide an example of the possible results available. Figure 5.5-2 shows flows in Lee Vining Creek during a cycle of hydro-resource optimization events in March 2017. The flow changes rapidly from about 7 cfs to 58 cfs, and up to 81 cfs in three cycles of hydro-resource optimization events.



cfs = cubic feet per second

Figure 5.5-2. March 2017 Flow Hydrograph.

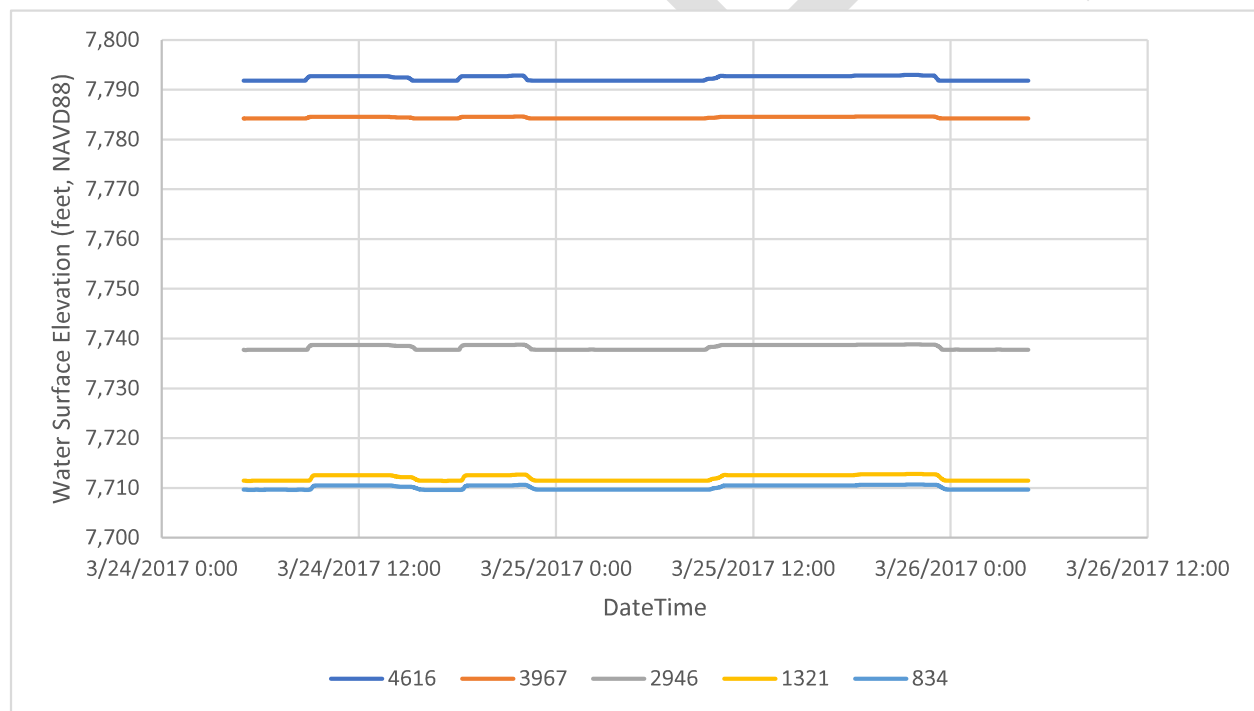
After running this hydrograph through the hydraulic model, water surface elevation, depth, and velocity results were captured at select cross sections in the model. These cross sections are summarized in Table 5.5-1. Cross section River Station 834 is located at Big Bend Campground.

Table 5.5-1. Summary of Reported Cross Sections

HEC-RAS River Station	Distance Downstream of Culvert on Power Plant Road (feet)
4616	128
3967	777
2946	1,798
1321	3,423
834	3,910

HEC-RAS = Hydrologic Engineering Center River Analysis System

Figure 5.5-3 through Figure 5.5-5 summarize the water surface elevation, depth, and velocity at each of these cross sections through the hydro-resource optimization event cycle shown in Figure 5.5-1.



NAVD88 = North American Vertical Datum of 1988

Figure 5.5-3. March 2017 Water Surface Elevations from Hydraulic Model.

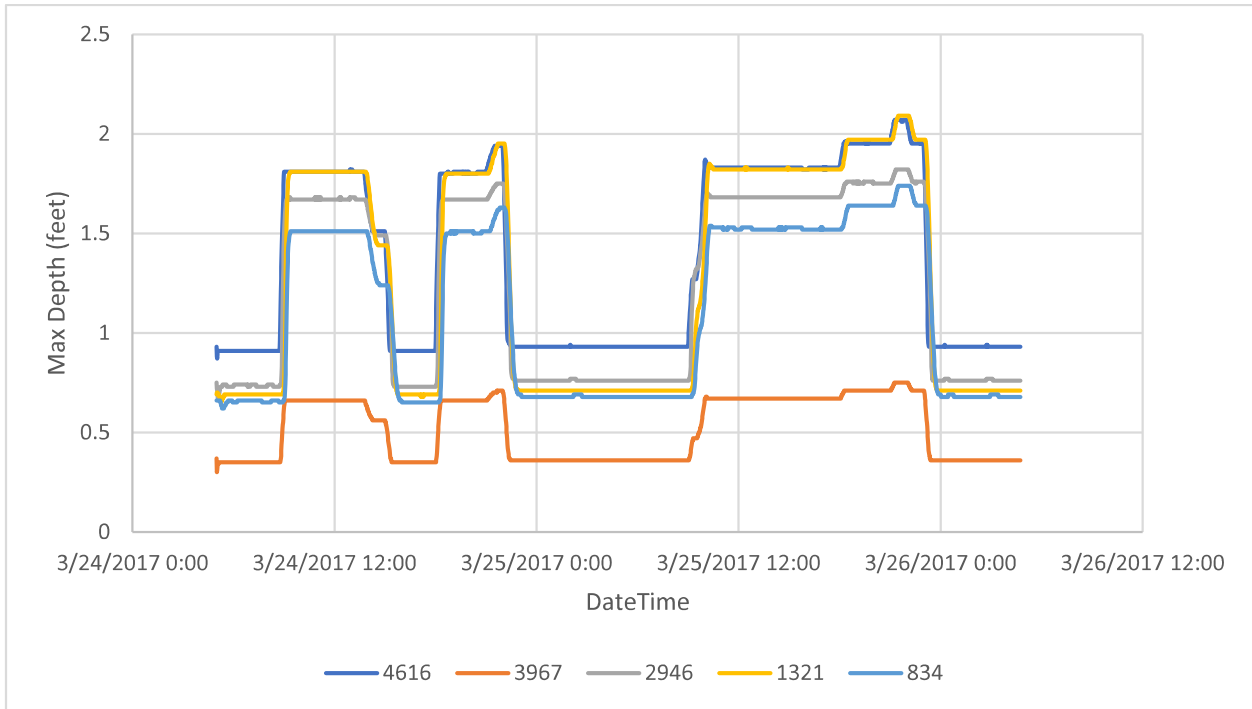
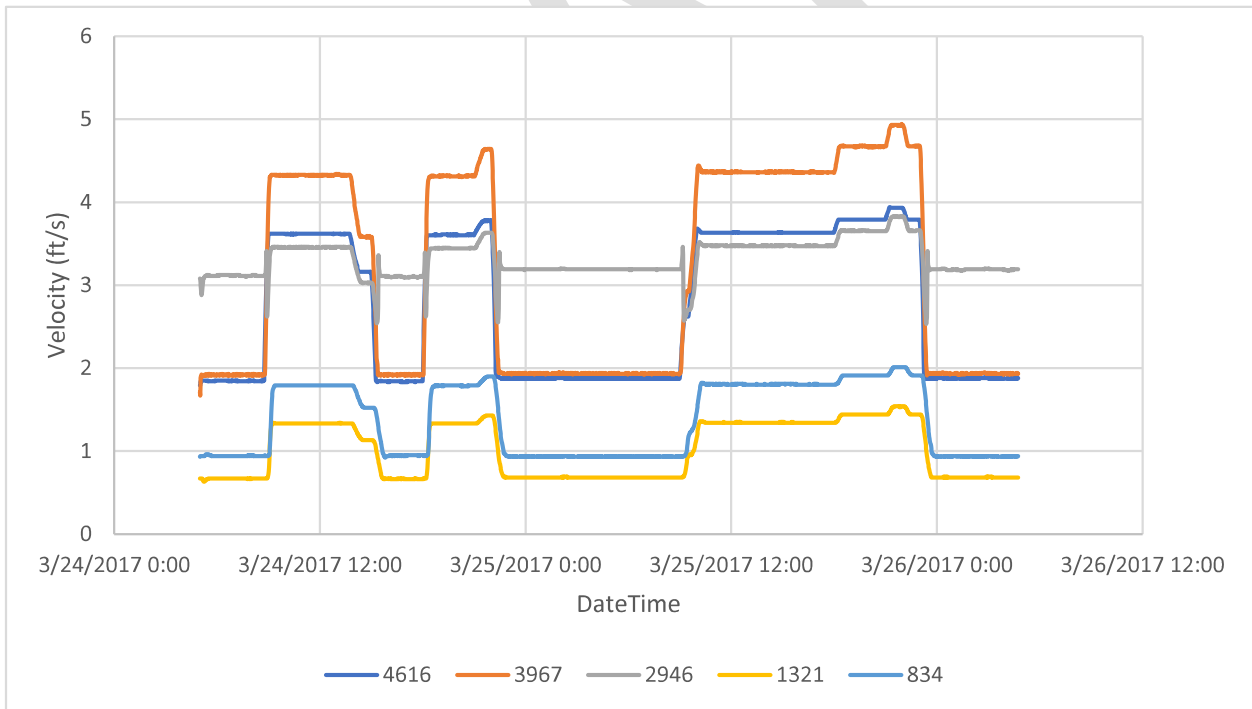


Figure 5.5-4. 1March 2017 Maximum Depths from Hydraulic Model.



ft/s = feet per second

Figure 5.5-5. March 2017 Velocities from Hydraulic Model.

5.5.3. HYDRAULIC MODEL APPLICATION

These example results help quantify the effects of hydro-resource optimization downstream of the Project and provide a tool to describe potential localized effects of the events; however, this is a simplified representation of a complex system. Additional scenarios may be necessary to help understand specific effects of proposed operations.

6.0 CONSULTATION SUMMARY

In preparation to file the Pre-Application Document (PAD) and Notice of Intent (NOI), SCE hosted Aquatic Resources TWG meetings on January 25, February 22, March 29, and May 24, 2021, which resulted in study requests from Stakeholders to address questions regarding stream and reservoir water quality. SCE filed draft Study Plans with the PAD and NOI on August 12, 2021, to address issues discussed with the TWG. The Stakeholder comment period ended on January 18, 2022, for the Study Plans, PAD, and NOI. SCE reviewed all comments received and drafted Revised Technical Study Plans, which were distributed to the TWGs on February 18, 2022, for another 30-day review period. Stakeholder comments received on the Revised Technical Study Plans were reviewed and incorporated as appropriate in the Final Technical Study Plans. Final Technical Study Plans were filed with FERC on April 25, 2022.

Initial study results were provided to relicensing Stakeholders on February 1, 2023, in a technical memorandum (SCE, 2023).

This AQ-5 Draft Technical Report presents the data of Study AQ-5 conducted in 2023. A 60-day Stakeholder comment period will follow the submittal of this technical report. Comments received on this technical report will be reviewed and incorporated as appropriate into the Final Technical Report, which will be filed with the Draft License Application in September 2024.

All comments received related to the AQ-5 Study Plan are included in Table 6-1.

Table 6-1. Consultation Summary—Response to Comments

Comment Number	Entity	Date/Forum	Comment	SCE Response
1	MLC	Email dated 2/22/2021	LADWP diverts water below the Project; A 2013 Settlement Agreement between the LADWP and the [SWRCB] implementing a court ordered restoration effort clarifies the use of the natural hydrograph downstream of the LADWP diversion to restore functional and self-sustaining stream systems with healthy riparian ecosystem components. This study is intended to determine if Project operations and facilities are able to deliver peak flows that may aid in restoration of habitat.	<p>SCE agrees that an operations model is necessary to address a number of questions related to Lee Vining hydrology and to assess potential measures for the new license.</p> <p>SCE is not party to the agreement referenced by the Mono Lake Committee and has not adopted this as a study objective because there is no Project nexus between SCE operations and settlement parties' ability to meet settlement agreement commitments downstream of the Project.</p> <p>This operations model looking at Project hydrology and operations constraints provides Stakeholders with information about the potential for the Project to provide peak flows.</p> <p>SCE developed the model as an Excel-based model.</p> <p>SCE intends for the model to be fully transparent; however, as a matter of policy will not distribute the completed model for widespread use. SCE's experience is that having the model developer run the model and report results is a best practice that avoids confusion about how to utilize the model and interpret. One approach is to convene this TWG to QA/QC the model and get consensus on the reliability of the outputs, and then work together to determine which scenarios to run.</p>
2	California Sports Fishing Association	TWG Meeting (3/29/2021)	<p>Wondered what type of platform was being considered for the Operations Model and if it will be publicly available.</p> <p>In the western Sierra, there have been good experiences with licensees sharing excel models, which allow relicensing participants to thoughtfully look at operational options and weed out approaches that are not feasible; this saves time for consultants/operators so they do not have to run all the options. CSPA is in favor of frequent communication and review of modeled scenarios.</p>	<p>A better understanding of management goals will help us understand what timestep is needed. SCE reviewed existing data to</p>
3	California Sports	TWG Meeting (3/29/2021)	Have you considered the timestep of the model? CSPA recommends a daily model since that	

Comment Number	Entity	Date/Forum	Comment	SCE Response
4	Fishing Association California Sports Fishing Association	TWG Meeting (3/29/2021)	<p>timestep will be important for many of the questions participants are interested in.</p> <p>Will you put together a hydrology dataset and share it with participants.</p> <p>There should be a description of general operations in the PAD, along with the hydrology dataset. It is important to establish that baseline understanding now.</p>	<p>determine the feasibility of providing daily timesteps.</p> <p>SCE worked with TWG members to iteratively review data and assess how it fits with model development.</p>
5	USFS	TWG Meeting (3/29/2021)	<p>USFS supports sharing the operations model; it is important for us to be able to run scenarios; the TWG can always review results together to ensure a shared understanding.</p>	<p>Comment noted.</p>
6	California Sports Fishing Association	TWG Meeting (5/24/2021)	<p>Regarding lower Lee Vining Creek hydrology, will daily averages be included in a study plan? Will it include a post-processing or analytical tool that will allow you to look at different operations within a given day? Will it provide a technical means to look at this (as opposed to a narrative description of general practices)? It could also be both.</p> <p>CSPA can share an example of analysis from the Water Board that looked at intraday operations to provide a general window into how operations followed load and market without getting into excessive detail.</p>	<p>The first step was to understand, describe, and talk about the ramifications of the operations. The Team is open to how this study ties to the operations model in that the model is currently focused on what controls releases on a daily basis; more discussion would be needed to understand how to expand it to cover intraday releases. SCE does not plan on factoring power prices and cues into a model as that is outside the scope of relicensing, in that those are largely economic decisions rather than strictly operational ones.</p>
7	USFS	Study Plan Request/PAD Comments (1/18/2022)	<p>Will this study to look at the potential impacts that climate change will have on operations? There is a clear nexus between the potential loss of glaciers and a shift in precipitation from snow dominated to rain dominated and a shorter and earlier runoff season. In addition, impacts from persistent and</p>	<p>SCE will review any examples that CSPA can provide for consideration.</p> <p>While SCE acknowledges that climate and climate change could continue to have an ongoing impact in the Sierra Nevada and may affect year-to-year variability in operations, SCE does not control the input, only the output. Thus it is unclear on what the Project</p>

Comment Number	Entity	Date/Forum	Comment	SCE Response
8	SWRCB	Study Plan Request/PAD	<p>ongoing drought can be anticipated. See "Inyo National Forest Climate Change Trend Summary 2021"</p> <p>How will operations be modified with the projected loss of water storage in glaciers and a transition from snow to rain dominated precipitation?</p>	<p>nexus would be for the proposed addition. SCE is not aware of any available climate change model or assessment that would support, with any degree of accuracy and reliability, prediction of water availability at the individual Project level; nor do we feel glacial forecasting would provide reliable and actionable information. Therefore, we are not proposing to consider climate research and modeling as part of the environmental report we will prepare for FERC.</p> <p>However, historical data for Project operations and flows can be used to evaluate trends in, and changes to, the hydrology of the Lee Vining drainage over time. This information will be used to establish the baseline for FERC's environmental analysis of aquatic resources, as well as evaluating potential Project effects on those resources. In compiling data for the operations model, these trends and changes to hydrology will be described.</p> <p>Reservoir storage, in general, provides a means of attenuating the localized effects of climate change on reaches that would otherwise be subject to extreme variation in flows. SCE anticipates that its operations will continue to emphasize its ability to store water from high precipitation events or seasons for release throughout the year as required by its sales agreement and minimum instream flow requirements that may be part of the new license.</p> <p>The past hydro-relicensing study was an internal effort to understand key parameters</p>

Comment Number	Entity	Date/Forum	Comment	SCE Response
		Comments (1/14/2022)	<p>Optimization efforts as it relates to flow (including ramping rates) and water quality. State Water Board staff also requests SCE clarify why data is not easily available to quantify the frequency and magnitude of these past events and what changes to flow monitoring would be necessary to accurately characterize future events. Additionally, State Water Board staff request that the proposed WQ-1 Stream and Reservoir Water Quality Technical Study Plan include monitoring of water quality parameters and flow (specifying ramping rates) during Hydro-Resource Optimization events in order to better inform potential impacts to beneficial uses of water.</p>	<p>that would be necessary to implement this mode of operations. SCE will provide the data collected as part of this effort, following an internal review for confidential/ proprietary data. Certain information, including pricing and valuation may need to be redacted or summarized. Water quality data was not collected, but there was some stage-discharge information at a downstream location that was collected.</p> <p>Challenges with providing a complete picture of this mode of operation include a lack of integration of operational and hydrologic data that would enable us to screen noise from true signals; early efforts to apply an algorithm to statistically define an "event" were inconclusive. We are exploring overlaying information from SCE's marketing group that may allow us to better define and separate an event from noise and we hope that this will allow us to describe both past and future events.</p>
9	State Water Resources Control Board	2/28/2022 Revised Study Plan Comment Period	<p>For AQ-5 Operations Model, I understand that there are some challenges and you will be modeling past hydro-optimization data if possible. What will be the time-step of the model?</p>	<p>SCE anticipates looking at historical data using 1-hour time steps to align with available supervisory control and data acquisition (SCADA) information.</p>
10	State Water Resources Control Board	3/17/2022 Revised Study Plan Comment Period	<p>AQ-5 Operations Model Technical Study Plan: Hydro-Resource Optimization Monitoring: SCE is proposing to determine the frequency, magnitude, duration, and seasonality of intraday releases from the Poole Powerhouse in response to resource optimization needs. As optimization operations may be short lived, please provide detail on what model time-step is</p>	<p>See response to comment #9 above.</p>

Comment Number	Entity	Date/Forum	Comment	SCE Response
11	CDFW	3/25/2022 Revised Study Plan Comment Period	<p>necessary to provide useful levels of detail to project operations.</p> <p>The operations model should be capable of releasing different bypass flows in different months and different water year types. The February 2022 Revised Study Plan states that: A current set of rules describing how these constraints are incorporated for high, low, and mean water years will form the basic architecture for flow routing decisions produced by the Model. In order to have flexibility for making various flow recommendations that will both benefit the aquatic ecosystems as well as be practical for the Project, we recommend that the water year types bins be a variable input for which year type breakdowns can be adjusted after review of the hydrology and consideration of various bypass release requirements. For example – it may be necessary later to include a critically dry year type instead of just “high, low, and mean.” The model should be built with flexibility to adjust those year type bins as well as including at least four-year types.</p>	<p>SCE appreciates this comment and the potential need for this level of analysis. We have incorporated these requests into our approach.</p>
12	CDFW	3/25/2022 Revised Study Plan Comment Period	<p>The model should additionally be constructed to allow for release of different bypass flows in different months. To prepare the model with as much flexibility as possible, we recommend building the model with at least monthly variation in bypass flow requirements for each release node.</p>	<p>SCE appreciates this comment and the potential need for this level of analysis. We have incorporated these requests into our approach.</p>
13	CDFW	3/25/2022 Revised Study Plan Comment Period	<p>Along with the operations modeling, unimpaired hydrology should be developed at multiple points in the system. Unimpaired hydrology is used when considering the results of other resource studies and aquatic populations in the watershed. Unimpaired hydrology will be used to compare to historic operations as well as proposed operational</p>	<p>SCE and FERC use the current baseline conditions (existing Project) to identify and analyze any potential effects. While SCE does not agree that unimpaired hydrology, or pre-Project conditions present a useful basis of comparison, unimpaired hydrology was developed for Saddlebag, Tioga, Ellery, and the downstream Lee Vining reach between Rhinedollar Dam and LADWP diversion</p>

Comment Number	Entity	Date/Forum	Comment	SCE Response
14	CDFW	3/25/2022 Revised Study Plan Comment Period	<p>scenarios when developing resource management measures.</p> <p>The operations model should include a module or post processing tool that allows all relicensing participants and FERC to understand clearly the financial impact (both gross generation and revenue) of new bypass requirements, ramping rate changes, pulse flow requirements on project finances. In future discussions of protection, mitigation and enhancement (PM&E) measures, all relicensing participants should have the ability to understand how any proposed PM&E measures are balanced with project generation impacts. Without this tool, SCE can say "yes" or "no" to PM&E measures, but FERC and RPs [relicensing participants] have no ability to understand why those decisions were made and where there is negotiating space and potential tradeoffs to be made around each of those potential measures.</p>	<p>(which was used to estimate the unimpaired inflow along the Lee Vining bypassed reach upstream of Poole Powerhouse, including Warren Fork contributions).</p> <p>SCE considers generation and revenue to be internal considerations that should not drive discussions surrounding potential effects. This information will not be developed for any publicly available version of the operations model.</p>
15	CDFW	TWG Meeting (5/18/2023)	<p>How does SCE plan to use the model? How do other stakeholders in the relicensing process intend to use the model?</p>	<p>The intent of this model is to connect the operations of the Project with a correlation to stage, and to understand the potential effects of this mode of operations on downstream resources. The intent is to communicate that to Stakeholders and integrate with objectives and operations moving forward. We have analyzed multiple resource areas and have had many conversations with Stakeholders.</p>
16	CDFW	TWG Meeting (5/18/2023)	<p>Are you able to correlate peaking and operations? How are you planning to use the output from operations modeling? Will it be used to look at new scenarios in the operations model?</p>	<p>It is a two-step process: 1) understand relationship and correlation; 2) understand impacts and how to manage them in the future. This helps agencies who may want to add operational structure in relation to how the model interacts with the grid.</p>

Comment Number	Entity	Date/Forum	Comment	SCE Response
17	CDFW	TWG Meeting (5/18/2023)	I'm speaking for the needs of my resource agency; looking at peaking and resource optimization is great, but we want to ensure that it will be tied back to us and making considerations regarding how we/you operate the project. We need a clear picture of how the models are being built. In order for us to analyze, we are interested in functional flows, peaking, and adding seasonal flows back into the creeks. There is a strong pressure to add seasonal flow back into river environments. We want to be able to use these tools. We want to understand peaking and how it returns to the river.	SCE wants a license that will guide operations in the future, and guide conversations about what we have learned from optimization. It is a simpler process, we came into this recognizing that optimization operation came into effect after the issuance of a previous license. Any change in operations is presumed an optimization, a presumed change in hydrology. This modeling effort is to clarify any changes in operations and correlate it with hydrology. Project effects is a requirement of licensing process, and the model helps optimize operations on ecological impacts, benefits, or restoration activities.
18	CDFW	TWG Meeting (5/18/2023)	We want to build in the option to see seasonal variability, with our experience from the Bishop project. We would like to look at SCE's power generation to do a trade-off analysis, recognizing that there is sensitivity there.	This model looks at the varying flows. SCE is interested in understanding the relationship between species, other ecological decisions, and this model. SCE wants to know agencies' needs and what needs to be added to the system. Currently, we are using existing targets and constraints. Downstream effects are easier to quantify now that the hydraulic model is finished and operating. These models are specifically looking at downstream data.
19	CSPA	TWG Meeting (5/18/2023)	For the intra-day issue, there is immediate focus on the reach downstream of Poole Powerhouse. There should also be focus on reservoirs and daily streamflow fluctuations especially between	The power generation piece is still a larger issue. SCE understands the desire for it, but there needs to be some clear sideboards. We have included seasonal inputs. For the reaches below Saddlebag and Tioga, we can look at shoulder seasons. To clarify, there is no drafting of Saddlebag or Tioga Lake as it relates to hydro-resource optimization. There is an instream flow requirement and Tioga that has to remain

Comment Number	Entity	Date/Forum	Comment	SCE Response
20	MLC	TWG Meeting (5/18/2023)	<p>Saddlebag and Ellery Lakes, and focus on the confluence with Tioga. Hydropower operations are going to pull from upstream. Depending on hydraulics and seasonality, is there some way to limit the degree of fluctuation by reducing the peak or bringing up the base, that would impact the drafting of the reservoirs? Warren Fork may help by bringing up the bases when you go into high flows at the powerhouse.</p> <p>I support what Beth was saying about functional flows, the California Environmental Flows Framework (CEFF) has this laid out well, they indicate the importance of flows and how to evaluate them. When I send the Snow Survey information, I will send that too. Saddlebag Lake stuff might help inform other resources but might miss something. With the functional flows, you assume that natural flows will support the ecosystem. The operational change in the recent years and the variance that USFS has given turns the natural hydrograph upside down, natural flows are higher in the summer than winter.</p>	<p>within a specified range of the spillway elevation for part of the year. Everything is managed from Ellery Lake, where there is an approximately 2-foot elevation change that SCE can manage. SCE uses that to optimize intraday. There is no control at Saddlebag or Tioga under the current license.</p> <p>We are looking at the baseline Project. We hear that there is a desire to go back to a natural hydrograph, but we need to understand the environmental impacts of the baseline Project operations. The tradeoff is that SCE is not here to return the stream to the natural hydrograph. We need a balance between restoration and Project impacts. This will come into consideration during PM&Es. This is our tool to help understand the baseline and develop that balance. We just do not want to be misleading that we will for sure be implementing functional flows.</p>
21	CDFW	TWG Meeting (5/18/2023)	<p>I would echo Greg's point; we are interested in looking at functional flows in all reaches. You should bring functional flow metrics into the operations Model. There are different pulses based on season. A mass-balance approach is worth discussing. I can post the link to CEFF flow methodology. The point is not to replace studies but to work with existing methodologies to see where there are missing pieces.</p>	<p>Bret has looked into these recommended components and considered what pieces fit into the operations model. Things considered: seasons, water year types, reservoir elevations, target elevations, potential variables and prioritization of them, consider limitations of multiple constraints. We also compared with management goals and objectives. Regarding the intraday analysis, we connected calibration with a HEC-RAS model which provided a tool to look at multiple downstream scenarios and tie in with other studies.</p>

Comment Number	Entity	Date/Forum	Comment	SCE Response
22	CDFW	TWG Meeting (5/18/2023)	We are trying to balance operations (power generation) with maintaining as much of the natural hydrograph as possible. The collision is the whole reason why we make a model, so we don't break things in real life. We want to figure out what components you need so we can figure out how much we can push the system and how much we can put back into the creek.	See response to comment #21 above.

CDFW = California Department of Fish and Wildlife; CEFF = California Environmental Flows Framework; CSPA = California Sportfishing Protection Alliance; FERC = Federal Energy Regulatory Commission; LADWP = Los Angeles Department of Water and Power; MLC = Mono Lake Committee; PAD = Pre-Application Document; PM&E = protection, mitigation, and enhancement; GA/QC = quality assurance/quality control; SCE = Southern California Edison; SWRCB = State Water Resources Control Board; TWG = Technical Working Group; USFS = U.S. Forest Service

7.0 REFERENCES

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SCE (Southern California Edison). 2020. Initial Study Report. Lee Vining Hydroelectric Project, FERC Project No. 1388. Filed October 30, 2020. Portland, Oregon.

SCE (Southern California Edison). 2022a. Revised Technical Study Plans. Lee Vining Hydroelectric Project, FERC Project No. 1388. February 18, 2022.

SCE (Southern California Edison). 2022b. Final Technical Study Plans. Lee Vining Hydroelectric Project, FERC Project No. 1388. April 25, 2022.

SCE (Southern California Edison). 2023. 2022 Progress Reports. Lee Vining Hydroelectric Project, FERC Project No. 1388. January.

DRAFT

From: [Lawson, Beth@Wildlife](mailto:Lawson_Beth@Wildlife)
To: [Isha Deo](mailto:Isha.Deo); [Finlay Anderson](mailto:Finlay.Anderson)
Cc: [Carissa Shoemaker](mailto:Carissa.Shoemaker); [Shannon Luoma](mailto:Shannon.Luoma)
Subject: RE: Lee Vining Operations Model for review
Date: Friday, June 14, 2024 3:46:22 PM
Attachments: [image001.jpg](#)

Thanks all for getting back to me!

Finlay – next weeks my availability:

Monday 6/17: 11-1, 2-5

Tuesday 6/18: 4-5

Thursday 6/20: 8-10:30, 2-5

Monday 6/24: 8-10:30

Tuesday 6/25: 2:30-5

Friday 6/28: all day

From: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Sent: Friday, June 14, 2024 3:31 PM
To: Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>
Cc: Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Isha Deo <Isha.Deo@Kleinschmidtgroup.com>; Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: Lee Vining Operations Model for review

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Hi Beth!

We have mulled this over a bit and are comfortable with getting you the Hec-Ras model, but would like to run through it a bit with you similar to how we just did with Bret. This model is a bit trickier and we'd prefer to just have one version floating around and would therefore like to designate you the "keeper" of this model. Obviously, all 'official' model runs would be done on Isha's version, similar to the way we're doing the overall Ops model. I'm heading out of the country next week, but Finlay is available to facilitate a meeting with you and Isha if you can throw out some times that work for you.

Thanks!

Shannon

Shannon Luoma
Licensing and Regulatory Section Manager
Office: 425.528.1614

www.KleinschmidtGroup.com

Upcoming outage: 6/19-7/3

From: Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>
Sent: Wednesday, June 12, 2024 7:59 AM
To: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: Lee Vining Operations Model for review

I'm willing to have an offline conversation about what is reasonable with this one. I personally don't have a need to dig into the Python code, but I do think there will be some desire for folks to understand the changes/impacts to hydropower peaking and associated changes in stage in different operational scenarios we might discuss.

From: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Sent: Tuesday, June 11, 2024 8:56 AM
To: Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>
Subject: RE: Lee Vining Operations Model for review

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FYI – we're sorting this out internally. Hadn't originally planned to distribute this but are figuring out how to make it work.

Shannon Luoma
Licensing and Regulatory Section Manager
Office: 425.528.1614
www.KleinschmidtGroup.com

From: Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>
Sent: Friday, June 7, 2024 1:37 PM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>; Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>; tristan.leong@usda.gov; Greg Reis <greg@monolake.org>; Bartshe Miller <bartshe@monolake.org>
Cc: Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Bret Hoffman <Bret.Hoffman@KleinschmidtGroup.com>
Subject: RE: Lee Vining Operations Model for review

Hi team– I forgot to ask in the meeting the other day: when will we be receiving copies of the interday release model?

Thanks,
Beth

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Friday, June 7, 2024 10:17 AM

To: Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>; Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>; tristan.leong@usda.gov; Greg Reis <greg@monolake.org>; Bartshe Miller <bartshe@monolake.org>

Cc: Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Bret Hoffman <Bret.Hoffman@KleinschmidtGroup.com>

Subject: Lee Vining Operations Model for review

WARNING: This message is from an external source. Verify the sender and exercise caution when clicking links or opening attachments.

Hello!

Attached is a copy of the working Lee Vining Operations Model. Bret Hoffman has highlighted cells that can be manipulated.

I've also attached the AQ-5 Operations Model report for reference.

Notes from Bret:

As discussed, a lot of information examined during the development of the model is still present, just not used in the actual model calculations. I left it all in there and will try to note what it was for, but that is not critical. Just note that actual calcs and their bases are all from the model tab.

A suggestion for use would be to start by adjusting values in the green highlighted cells on the summary tab, see results for percentages there (I'm still adding those metrics and will send out updates as they are completed); also look at the model tab for daily actual calcs/results, and the output graphs for a few examples of additional impacts. I'm looking for your input on additional metrics and graphs that may be of value. Another graphic source of reservoir effects from adjustments is on the storage tab, which graphically shows the results of model run with reservoir levels versus historic, based on year type.

I was not able to find the release capacity from the reservoir outlets, but USGS records indicate the maximum for Saddlebag is 63 cfs when the reservoir is not spilling. Similarly, the maximum flow recorded at Glacier Creek when Tioga is below the spill capacity is 63 cfs.

Please play around with the model and have your questions, scenarios, and metrics ideas ready to discuss at our upcoming June 27 working session.
Thanks everyone!

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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From: [Greg Reis](#)
To: [Lawson_Beth@Wildlife](#); [Carissa Shoemaker](#); [Cohen.Adam@Waterboards](#); [Muro.Bryan@Waterboards](#); [Meese.Graham@Wildlife](#); [tristan.leong@usda.gov](#); [Bartshe Miller](#)
Cc: [Matthew Woodhall](#); [Martin Ostendorf](#); [Shannon Luoma](#); [Finlay Anderson](#); [Bret Hoffman](#)
Subject: Re: Lee Vining Operations Model for review
Date: Thursday, June 27, 2024 11:43:40 AM
Attachments: [image001.jpg](#)
[LV_ops_model_060724GR-modified.xlsx](#)

Thanks for the call today, it was very helpful. If I could get a copy of the HEC-RAS intraday model, I'd appreciate it.

Bret, in the attached GR-modified file I've pasted the LADWP data I mentioned into column JA of the Hydrology tab. These are daily average flows above the LADWP diversion dam that were developed and checked as part of a collaborative modeling effort we participated in with LADWP. For that modeling we made assumptions that irrigation water pre-2000 is added back into the flow (irrigation diversion from Gibbs Creek stopped in 2000 and isn't expected to resume), so prior to 2000 these numbers wouldn't match the historic flows measured at the LADWP flume during the irrigation season, but instead would be representative of current water management downstream of the FERC project.

I have one more suggestion—I am not as proficient in DSS as Beth, so perhaps for some, equally as helpful as my suggestion for monthly and yearly flow summaries would be annual hydrographs. You can see examples I made in the model tab:

- Cell B9503: stacked area graphs for Saddlebag outflow (grey), Tioga outflow (orange), Ellery outflow minus the previous two (yellow); black line for powerplant, thin blue line for total outflow, and thin green line for above the LADWP diversion. I added a Tioga plus Saddlebag outflow when Tioga is spilling (essentially I was trying for a solid line at the top of the orange whenever Tioga spills).
- Cell B9543: grey area for Saddlebag outflow, green line for inflow. A graph like this for each reservoir would be helpful, and adding storage to it would be nice. I think an unimpaired vs. modeled outflow graph for total project outflow would also be helpful.

Thanks again for your work on these important tools and participating in these discussions.

Greg

Greg Reis, Information & Restoration Specialist, Mono Lake Committee
(760) 647-6386 x141 (direct/voicemail) | 415-342-6390 (mobile)
Hwy 395 at Third St, PO Box 29, Lee Vining, CA 93541
www.monolake.org | www.monobasinresearch.org

*Saving Mono Lake for future generations through
protection, restoration, education, and science.
Long Live Mono Lake!*

From: Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>

Sent: Friday, June 7, 2024 1:36 PM

To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>; Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>; tristan.leong@usda.gov <tristan.leong@usda.gov>; Greg Reis <greg@monolake.org>; Bartshe Miller <bartshe@monolake.org>

Cc: Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Bret Hoffman <Bret.Hoffman@KleinschmidtGroup.com>

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Sent: Friday, June 7, 2024 10:17 AM

To: Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; Lawson, Beth@Wildlife <Beth.Lawson@wildlife.ca.gov>; Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>; tristan.leong@usda.gov; Greg Reis <greg@monolake.org>; Bartshe Miller <bartshe@monolake.org>

Cc: Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Bret Hoffman <Bret.Hoffman@KleinschmidtGroup.com>

Subject: Lee Vining Operations Model for review

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Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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From: [Carissa Shoemaker](#)
To: greg@monolake.org
Subject: Carissa Shoemaker shared the folder "SentToG.Reis_20240705" with you
Date: Friday, July 5, 2024 10:58:08 AM
Attachments: [AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)



Carissa Shoemaker shared a folder with you

Hi Greg,
at this OneDrive link you should find the HEC-RAS files for the Lee Vining intraday operations hydrology model. Please let us know if you have any questions or issues accessing the files.
Thanks!



SentToG.Reis_20240705



This link only works for the direct recipients of this message.

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From: [Carissa Shoemaker](#)
To: [Greg Reis](#)
Cc: [Bartshe Miller](#); [Robert Di Paolo](#); [Shannon Luoma](#)
Subject: RE: Lee Vining Hydro 2023 Draft Technical Reports for review (#2)
Date: Monday, June 10, 2024 2:37:00 PM
Attachments: [image001.jpg](#)

Hi Greg,

Sending your comments to me, Shannon, and Matt at the end of day tomorrow is perfect. Thank you for checking!

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Greg Reis <greg@monolake.org>
Sent: Monday, June 10, 2024 2:32 PM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Cc: Bartshe Miller <bartshe@monolake.org>; Robert Di Paolo <robbie@monolake.org>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: Lee Vining Hydro 2023 Draft Technical Reports for review (#2)

Hi Carissa,

We have additional comments we will be submitting tomorrow on these study reports. A couple of questions:

1. Is the end-of-day tomorrow okay?
2. We will email them to you, Shannon, and Matt, as requested below, but is there an address or more specific email address that we should address them to?

Thanks,
Greg

Greg Reis, Information & Restoration Specialist, Mono Lake Committee
(760) 647-6386 x141 (direct/voicemail) | 415-342-6390 (mobile)
Hwy 395 at Third St, PO Box 29, Lee Vining, CA 93541
www.monolake.org | www.monobasinresearch.org

***Saving Mono Lake for future generations through
protection, restoration, education, and science.
Long Live Mono Lake!***

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Monday, April 29, 2024 10:49 AM
To: Greg Reis <greg@monolake.org>

Cc: Bartshe Miller <bartshe@monolake.org>; Robert Di Paolo <robbie@monolake.org>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>

Subject: RE: Lee Vining Hydro 2023 Draft Technical Reports for review (#2)

Thank you for the comments, Greg!

Carissa Shoemaker

Licensing Coordinator

www.kleinschmidtgroup.com

907-575-0294

Upcoming outage, traveling for work: May 13-16

From: Greg Reis <greg@monolake.org>

Sent: Saturday, April 27, 2024 6:40 AM

To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Cc: Bartshe Miller <bartshe@monolake.org>; Robert Di Paolo <robbie@monolake.org>

Subject: RE: Lee Vining Hydro 2023 Draft Technical Reports for review (#2)

The following are my comments on the geomorphology report

- Figure 3.2-1 shows a period of time in March when Total SCE was much higher than LADWP. Please explain how this is possible, and if one of the traces is likely erroneous, which one and why?
- Table 3.3-1 refers to SCE and USGS gauges. These gauges should be shown on the map, and the footnote should note what flow path is being measured by each gauge. If one of the gauges matches “Total SCE” in Figure 3.2-1, that should be noted.
- The peak discharge of 470 cfs noted on page 11 is higher than the peak shown for “Total SCE” in Figure 3.2-1.
- I recommend separate analysis of the cross section data focused on stages that occur during typical hydropeaking resource optimization operations. These frequent repeated fluctuations in a similar stage range could be impacting the morphology, benthic macroinvertebrate community, and vegetation community in these ranges.

Greg Reis, Information & Restoration Specialist, Mono Lake Committee

(760) 647-6386 x141 (direct/voicemail) | 415-342-6390 (mobile)

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***Saving Mono Lake for future generations through
protection, restoration, education, and science.***

Long Live Mono Lake!

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Friday, April 12, 2024 1:15 PM

To: adam.barnett@usda.gov; adam.cohen@waterboards.ca.gov; Adam.Perez@ladwp.com; Alisa.Ellsworth@wildlife.ca.gov; Alyssa.Hockaday@Wildlife.ca.gov; andrea@accessfund.org; ashley.blythehaverstock@usda.gov; Bartshe Miller <bartshe@monolake.org>; beth.lawson@wildlife.ca.gov; bryan.muro@waterboards.ca.gov; Bryant.Luu@wildlife.ca.gov; Chad_Mellison@fws.gov; clerkrecorder@mono.ca.gov; courtney.rowe@usda.gov; cshutes@calsport.org; culture@bridgeportindiancolony.com; curator@monobasinhistory.org; dannon.dirgo@usda.gov; meryl.picard@bishoppaiute.org; darren.delgado@bishoppaiute.org; cheyenne.stone@bigpinepaiute.org; chair@bridgeportindiancolony.com; THPO@WashoeTribe.us; easternsierraartist@gmail.com; eric.tillemans@ladwp.com; erik@accessfund.org; kutzanuumu@yahoo.com; nayanake@comcast.net; patsiata@yahoo.com; kathybancroft@gmail.com; ssmiwuknation@gmail.com; sandra47roy@gmail.com; carl@fortindependence.com; secretary@southernsierramiwuknation.org; Rwgoode911@hotmail.com; d.gutierrez@bigpinepaiute.org; kyle@mewuk.com; char54lange@gmail.com; chair@monolaketribe.us; s.manning@bigpinepaiute.org; cmcdonald@nfr-nsn.gov; jon@mewuk.com; lucy_basket4@yahoo.com; claymiwumati@gmail.com; s.saulque@bentontribe.org; falconkeeper22@gmail.com; serrell.smokey@washoetribe.us; dtonenna@gmail.com; dtonenna@monolaketribe.us; events@mammothmuseum.org; Geoffrey McQuilkin <geoff@monolake.org>; graham.meese@wildlife.ca.gov; Greg Reis <greg@monolake.org>; Jacqueline.beidl@usda.gov; Jameisha.Washington@usda.gov; James.Erdman@wildlife.ca.gov; jennifer.watts@waterboards.ca.gov; justin_barrett@fws.gov; kary.schlick@usda.gov; kary.schlick@usda.gov; katie@accessfund.org; kayla@friendsoftheinyo.org; lilian_jonas@contractor.nps.gov; michael.tovar@wildlife.ca.gov; michael.wiese@usda.gov; monique.sanchez@usda.gov; nathan.sill@usda.gov; Nick.Buckmaster@wildlife.ca.gov; parker.thaler@Waterboards.ca.gov; Patricia.Moyer@Wildlife.ca.gov; Rajaa.Hassan@waterboards.ca.gov; ryan.cooper@wildlife.ca.gov; Saeed.Jorat@ladwp.com; sb@snowhydrology.com; sheila.irons@usda.gov; stephanie.heller@usda.gov; todd.ellsworth@usda.gov; tristan.leong@usda.gov; Wilfred.Nabahe@usda.gov

Cc: Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Kelly Larimer <Kelly.Larimer@KleinschmidtGroup.com>; Angela Whelpley <Angela.Whelpley@KleinschmidtGroup.com>; Hannah Gorin <Hannah.Gorin@kleinschmidtgroup.com>; Bret Hoffman <Bret.Hoffman@KleinschmidtGroup.com>; Isha Deo <Isha.Deo@Kleinschmidtgroup.com>; Ethan Muhlestein <Ethan.Muhlestein@KleinschmidtGroup.com>; Steve Norton <steve.norton@psomas.com>; Brad Blood <bblood@psomas.com>; Allison Rudalevige <allison.rudalevige@psomas.com>; Heather Bowen Neff <heather@stillwatersci.com>; Ian Pryor <ian@stillwatersci.com>; Matt McKechnie <mmckechnie@stillwatersci.com>; Christina Buck <cbuck@stillwatersci.com>; Noah Hume <noah@stillwatersci.com>

Subject: Lee Vining Hydro 2023 Draft Technical Reports for review (#2)

Hello Lee Vining Technical Working Group members,

The Lee Vining Hydroelectric Project Relicensing Team has drafted several Technical Reports summarizing data collected in the 2022 and 2023 studies. These draft reports are becoming

C-10_RE_LV Technical Reports for review

available for your review on a rolling basis; nine of which are ready now:

- Aquatic Habitat Mapping and Sediment Characterization (AQ-3) at: [LV_AQ-3_Aquatic Habitat Sediment Tech Report.pdf](#)
- Operations and Hydrology Model (AQ-5) at: [LV_AQ-5_Ops Model Tech Report.pdf](#)
- Stream and Reservoir Water Quality Study (WQ-1) at: [LV_WQ-1_Water Quality Tech Report.pdf](#)
- General Botanical Resources Survey (TERR-1) at: [LV_TERR-1_Botanical Tech Report.pdf](#)
- Project Lands and Roads Assessment (LAND-1) at: [LV_LAND-1_Project Lands Tech Report.pdf](#)

Provided earlier this week:

- Aquatic Invasive Plants Survey (AQ-4) at: [LV_AQ-4_Aquatic Invasive Plants Tech Report.pdf](#)
- Lower Lee Vining Creek Channel Morphology (AQ-6) at: [LV_AQ-6_Channel Morph Tech Report.pdf](#)
- Facilities Condition Assessment (REC-2) at: [LV_REC-2_Facilities Condition Tech Report.pdf](#)
- Aesthetic Resources Study (LAND-2) at: [LV_LAND-2_Aesthetics Tech Report.pdf](#)

This remaining report will be coming early next week in a separate email:

- General Wildlife Resources Survey (TERR-2)

These draft reports are being distributed for a 60-day review. Comments received will be reviewed and incorporated into the Final Technical Reports as appropriate, to be filed with the Draft License Application in September. Please send us your comments and questions by June 11.

We plan to discuss these Draft Technical Reports with you on May 14 at our in-person meeting in Lee Vining, please reach out if you do not have this invitation.

Let us know if you have any questions.

SCE's project manager: Matthew Woodhall Matthew.Woodhall@sce.com

Kleinschmidt's project manager: Shannon Luoma Shannon.Luoma@Kleinschmidtgroup.com

Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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*We provide practical **solutions** for renewable energy, water and environmental projects!*

From: [Mellison, Chad](#)
To: [Carissa Shoemaker](#)
Cc: [Shannon Luoma](#)
Subject: RE: [EXTERNAL] Carissa Shoemaker shared the folder "LV Tech Report Comments June 2024" with you
Date: Tuesday, June 11, 2024 11:37:42 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.jpg](#)
[image007.jpg](#)

Wonderful, thank you!

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Tuesday, June 11, 2024 11:36 AM
To: Mellison, Chad <chad_mellison@fws.gov>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: [EXTERNAL] Carissa Shoemaker shared the folder "LV Tech Report Comments June 2024" with you

Yes, thank you Chad! The upload worked and I can see your 13 comments in it.

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Mellison, Chad <chad_mellison@fws.gov>
Sent: Tuesday, June 11, 2024 11:34 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Subject: RE: [EXTERNAL] Carissa Shoemaker shared the folder "LV Tech Report Comments June 2024" with you

Please let me know that you were able to access the file I just uploaded. Thank you.

CHAD

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Tuesday, June 11, 2024 11:30 AM
To: Mellison, Chad <chad_mellison@fws.gov>
Subject: [EXTERNAL] Carissa Shoemaker shared the folder "LV Tech Report Comments June 2024" with you

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Carissa Shoemaker shared a folder with you

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[LV Tech Report Comments June 2024](#)



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From: [Greg Reis](#)
To: [Carissa Shoemaker](#); [adam.barnett@usda.gov](#); [adam.cohen@waterboards.ca.gov](#); [Adam.Perez@ladwp.com](#); [Alisa.Ellsworth@wildlife.ca.gov](#); [Alyssa.Hockaday@Wildlife.ca.gov](#); [andrea@accessfund.org](#); [ashley.blythehaverstock@usda.gov](#); [Bartshe Miller](#); [beth.lawson@wildlife.ca.gov](#); [bryan.muro@waterboards.ca.gov](#); [Bryant.Luu@wildlife.ca.gov](#); [Chad_Mellison@fws.gov](#); [clerkrecorder@mono.ca.gov](#); [courtney.rowe@usda.gov](#); [cshutes@calsport.org](#); [culture@bridgeportindiancolony.com](#); [curator@monobasinhistory.org](#); [dannon.dirgo@usda.gov](#); [meryl.picard@bishoppaiute.org](#); [darren.delgado@bishoppaiute.org](#); [cheyenne.stone@bigpinepaiute.org](#); [chair@bridgeportindiancolony.com](#); [THPO@WashoeTribe.us](#); [easternsierraartist@gmail.com](#); [eric.tillemans@ladwp.com](#); [erik@accessfund.org](#); [kutzanuumu@yahoo.com](#); [nayanake@comcast.net](#); [patsiata@yahoo.com](#); [kathybancroft@gmail.com](#); [ssmiwuknation@gmail.com](#); [sandra47roy@gmail.com](#); [carl@fortindependence.com](#); [secretary@southernsierramiwuknation.org](#); [Rwgoode911@hotmail.com](#); [d.gutierrez@bigpinepaiute.org](#); [kyle@mewuk.com](#); [char54lange@gmail.com](#); [chair@monolake.tribe.us](#); [s.manning@bigpinepaiute.org](#); [cmcdonald@nfr-nsn.gov](#); [jon@mewuk.com](#); [lucy_basket4@yahoo.com](#); [claymiwumati@gmail.com](#); [s.saulque@bentontribe.org](#); [falconkeeper22@gmail.com](#); [serrell.smokey@washotribe.us](#); [dtonenna@gmail.com](#); [dtonenna@monolake.tribe.us](#); [events@mammothmuseum.org](#); [Geoffrey McQuilkin](#); [graham.meese@wildlife.ca.gov](#); [Jacqueline.beidl@usda.gov](#); [Jameisha.Washington@usda.gov](#); [James.Erdman@wildlife.ca.gov](#); [jennifer.watts@waterboards.ca.gov](#); [justin_barrett@fws.gov](#); [kary.schlick@usda.gov](#); [kary.schlick@usda.gov](#); [katie@accessfund.org](#); [kayla@friendsoftheinyo.org](#); [lilian_jonas@contractor.nps.gov](#); [michael.tovar@wildlife.ca.gov](#); [michael.wiese@usda.gov](#); [monique.sanchez@usda.gov](#); [nathan.sill@usda.gov](#); [Nick.Buckmaster@wildlife.ca.gov](#); [parker.thaler@Waterboards.ca.gov](#); [Patricia.Moyer@Wildlife.ca.gov](#); [Rajaa.Hassan@waterboards.ca.gov](#); [ryan.cooper@wildlife.ca.gov](#); [Saeed.Jorat@ladwp.com](#); [sb@snowhydrology.com](#); [sheila.iron@usda.gov](#); [stephanie.heller@usda.gov](#); [todd.ellsworth@usda.gov](#); [tristan.leong@usda.gov](#); [Wilfred.Nabahe@usda.gov](#)
Cc: [Matthew Woodhall](#); [Martin Ostendorf](#); [Shannon Luoma](#); [Finlay Anderson](#); [Kelly Larimer](#); [Angela Whelpley](#); [Hannah Gorin](#); [Bret Hoffman](#); [Isha Deo](#); [Ethan Muhlestein](#); [Steve Norton](#); [Brad Blood](#); [Allison Rudalevige](#); [Heather Bowen Neff](#); [Jan Pryor](#); [Matt McKechnie](#); [Christina Buck](#); [Noah Hume](#)
Subject: RE: Lee Vining Hydro 2023 Draft Technical Reports for review (#3)
Date: Tuesday, June 11, 2024 5:37:49 PM
Attachments: [image001.jpg](#)
[Lee Vining Hydro Relicensing Comments from MLC.docx](#)

Hi all,

Please find the Mono Lake Committee's comments attached.

Thanks,

Greg

Greg Reis, Information & Restoration Specialist, Mono Lake Committee

(760) 647-6386 x141 (direct/voicemail) | 415-342-6390 (mobile)

Hwy 395 at Third St, PO Box 29, Lee Vining, CA 93541

www.monolake.org | www.monobasinresearch.org

***Saving Mono Lake for future generations through
protection, restoration, education, and science.***

Long Live Mono Lake!

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Tuesday, April 16, 2024 11:30 AM

To: [adam.barnett@usda.gov](#); [adam.cohen@waterboards.ca.gov](#); [Adam.Perez@ladwp.com](#); [Alisa.Ellsworth@wildlife.ca.gov](#); [Alyssa.Hockaday@Wildlife.ca.gov](#); [andrea@accessfund.org](#); [ashley.blythehaverstock@usda.gov](#); [Bartshe Miller](#) <bartshe@monolake.org>; [beth.lawson@wildlife.ca.gov](#); [bryan.muro@waterboards.ca.gov](#); [Bryant.Luu@wildlife.ca.gov](#); [Chad_Mellison@fws.gov](#); [clerkrecorder@mono.ca.gov](#); [courtney.rowe@usda.gov](#); [cshutes@calsport.org](#); [culture@bridgeportindiancolony.com](#); [curator@monobasinhistory.org](#); [dannon.dirgo@usda.gov](#); [meryl.picard@bishoppaiute.org](#); [darren.delgado@bishoppaiute.org](#); [cheyenne.stone@bigpinepaiute.org](#); [chair@bridgeportindiancolony.com](#); [THPO@WashoeTribe.us](#);

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kathybancroft@gmail.com; ssmiwuknation@gmail.com; sandra47roy@gmail.com;
carl@fortindependence.com; secretary@southernsierramiwuknation.org;
Rwgoode911@hotmail.com; d.gutierrez@bigpinepaiute.org; kyle@mewuk.com;
char54lange@gmail.com; chair@monolaketribe.us; s.manning@bigpinepaiute.org; cmcdonald@nfr-
nsn.gov; jon@mewuk.com; lucy_basket4@yahoo.com; claymiwumati@gmail.com;
s.saulque@bentontribe.org; falconkeeper22@gmail.com; serrell.smokey@washoetribe.us;
dtonenna@gmail.com; dtonenna@monolaketribe.us; events@mammothmuseum.org; Geoffrey
McQuilkin <geoff@monolake.org>; graham.meese@wildlife.ca.gov; Greg Reis
<greg@monolake.org>; Jacqueline.beidl@usda.gov; Jameisha.Washington@usda.gov;
James.Erdman@wildlife.ca.gov; jennifer.watts@waterboards.ca.gov; justin_barrett@fws.gov;
kary.schlick@usda.gov; kary.schlick@usda.gov; katie@accessfund.org; kayla@friendsoftheinyo.org;
lilian_jonas@contractor.nps.gov; michael.tovar@wildlife.ca.gov; michael.wiese@usda.gov;
monique.sanchez@usda.gov; nathan.sill@usda.gov; Nick.Buckmaster@wildlife.ca.gov;
parker.thaler@Waterboards.ca.gov; Patricia.Moyer@Wildlife.ca.gov;
Rajaa.Hassan@waterboards.ca.gov; ryan.cooper@wildlife.ca.gov; Saeed.Jorat@ladwp.com;
sb@snowhydrology.com; sheila.irons@usda.gov; stephanie.heller@usda.gov;
todd.ellsworth@usda.gov; tristan.leong@usda.gov; Wilfred.Nabahe@usda.gov

Cc: Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf
<martin.ostendorf@sce.com>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay
Anderson <finlay.anderson@kleinschmidtgroup.com>; Kelly Larimer
<Kelly.Larimer@KleinschmidtGroup.com>; Angela Whelpley
<Angela.Whelpley@KleinschmidtGroup.com>; Hannah Gorin
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Isha Deo <Isha.Deo@Kleinschmidtgroup.com>; Ethan Muhlestein
<Ethan.Muhlestein@KleinschmidtGroup.com>; Steve Norton <steve.norton@psomas.com>; Brad
Blood <bblood@psomas.com>; Allison Rudalevige <allison.rudalevige@psomas.com>; Heather
Bowen Neff <heather@stillwatersci.com>; Ian Pryor <ian@stillwatersci.com>; Matt McKechnie
<mmckechnie@stillwatersci.com>; Christina Buck <cbuck@stillwatersci.com>; Noah Hume
<noah@stillwatersci.com>

Subject: Lee Vining Hydro 2023 Draft Technical Reports for review (#3)

Hello Lee Vining Technical Working Group members,

The Lee Vining Hydroelectric Project Relicensing Team has drafted several Technical Reports summarizing data collected in the 2022 and 2023 studies. These draft reports are all now available for your review:

- General Wildlife Resources Survey (TERR-2) at: [LV TERR-2 Wildlife Tech Report.pdf](#)

Provided last week:

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- Aquatic Invasive Plants Survey (AQ-4) at: [LV AQ-4 Aquatic Invasive Plants Tech Report.pdf](#)
- Operations and Hydrology Model (AQ-5) at: [LV AQ-5 Ops Model Tech Report.pdf](#)

C-12_RE_MLC Comments LV Technical Reports

Lower Lee Vining Creek Channel Morphology (AQ-6) at: [LV_AQ-6_Channel_Morph_Tech_Report.pdf](#)

- Stream and Reservoir Water Quality Study (WQ-1) at: [LV_WQ-1_Water Quality_Tech_Report.pdf](#)
- General Botanical Resources Survey (TERR-1) at: [LV_TERR-1_Botanical_Tech_Report.pdf](#)
- Project Lands and Roads Assessment (LAND-1) at: [LV_LAND-1_Project_Lands_Tech_Report.pdf](#)
- Aesthetic Resources Study (LAND-2) at: [LV_LAND-2_Aesthetics_Tech_Report.pdf](#)
- Facilities Condition Assessment (REC-2) at: [LV_REC-2_Facilities_Condition_Tech_Report.pdf](#)

These draft reports are being distributed for a 60-day review. Comments received will be reviewed and incorporated into the Final Technical Reports as appropriate, to be filed with the Draft License Application in September. Please send us your comments and questions by June 11.

We plan to discuss these Draft Technical Reports with you on May 14 at our in-person meeting in Lee Vining, please reach out if you do not have this invitation.

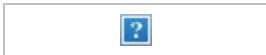
Let us know if you have any questions.

SCE's project manager: Matthew Woodhall Matthew.Woodhall@sce.com

Kleinschmidt's project manager: Shannon Luoma Shannon.Luoma@Kleinschmidtgroup.com

Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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*We provide practical **solutions** for renewable energy, water and environmental projects!*

From: Mono Lake Committee

Date: 6/11/24

To: Southern California Edison & Kleinschmidt

Re: Lee Vining Hydro Relicensing Comments

Thank you for the opportunity to comment on the study reports recently released; we offer the following comments on these reports. Because impacts of the hydropower project operation cross study areas and occur in areas not studied, and since we now have results that can lead toward the development of Protection, Mitigation, & Enhancement measures, we include additional relevant information and comments that go beyond the scope of any single study. These are hopefully useful in integrating the analyses.

General comments regarding resource optimization (a.k.a. hydropeaking)

At the 5/24/21 Aquatic Resources Technical Working Group Meeting, Southern California Edison (SCE) outlined a plan to analyze hydropeaking with “slight expansions of existing studies and integrating those studies into a framework for looking at [the] relationship between flows and resources.” We have not yet seen that integrated framework, and making piecemeal comments on each study is of limited value. Here we present our comments in an integrated manner.

Extreme fluctuations in flow since 2015 (Operations Modeling Study Table 5.4-3 shows a big increase in frequency since 2015 and Table 5.4-2 shows a big increase in magnitude) caused by SCE’s hydropower operations make it challenging to measure and implement minimum Stream Ecosystem Flows (SEFs) at the Lee Vining Creek Diversion Dam. Most of the time, the Los Angeles Department of Water & Power’s (LADWP) hourly operations dampen the flow changes and protect downstream ecological values compared to SCE’s hydropeaking patterns. LADWP is operating as best it can to divert flows in excess of the minimum SEFs, while doing everything it reasonably can to ensure the minimum flows are maintained below the diversion dam. However, there are certain configurations that LADWP employs under specific conditions that unintentionally transfer rapid flow changes to the bottomlands of either Lee Vining or Rush Creek.

Hydropeaking fluctuations and impacts cannot be consistently dampened at the Lee Vining Diversion Dam. For example, on 9/18/23, the flow at the Diversion Dam went from 45 cubic feet per second (cfs) to 120 cfs in 2 hours. Because diversions were shut off due to a nearly-full Grant Lake Reservoir, the impact of that flow change passed all the way down Lee Vining Creek to Mono Lake. Flow changes of this magnitude are not permitted under LADWP’s water rights license requirements, which are designed to maintain healthy stream ecosystem function. When diversion operations are able to protect lower Lee Vining Creek from hydropeaking fluctuations, the fluctuations are usually absorbed by Grant Lake Reservoir. However, if the reservoir is spilling or if the Five Siphons Bypass is being used to release water to Rush Creek, those fluctuations are transferred to Rush Creek. For example, during the month of July 2022, hydropeaking operations were observed in LADWP’s 15-minute flow data in the Lee Vining Conduit (Figure 1), which is the conduit that diverts water from Lee

Vining Creek to Grant Lake Reservoir. If the Lee Vining Conduit were not taking water at this time, rapid and large flow changes would have been impacting the creek downstream of the Lee Vining Diversion Dam. However, at this time, LADWP was delivering all Lee Vining Conduit flows directly to Rush Creek via the Five Siphon Bypass. During July 2022, SCE's operations, uncoordinated with LADWP's, produced unstudied yet potentially harmful flow variations in Rush Creek, another creek that is state-mandated for restoration.

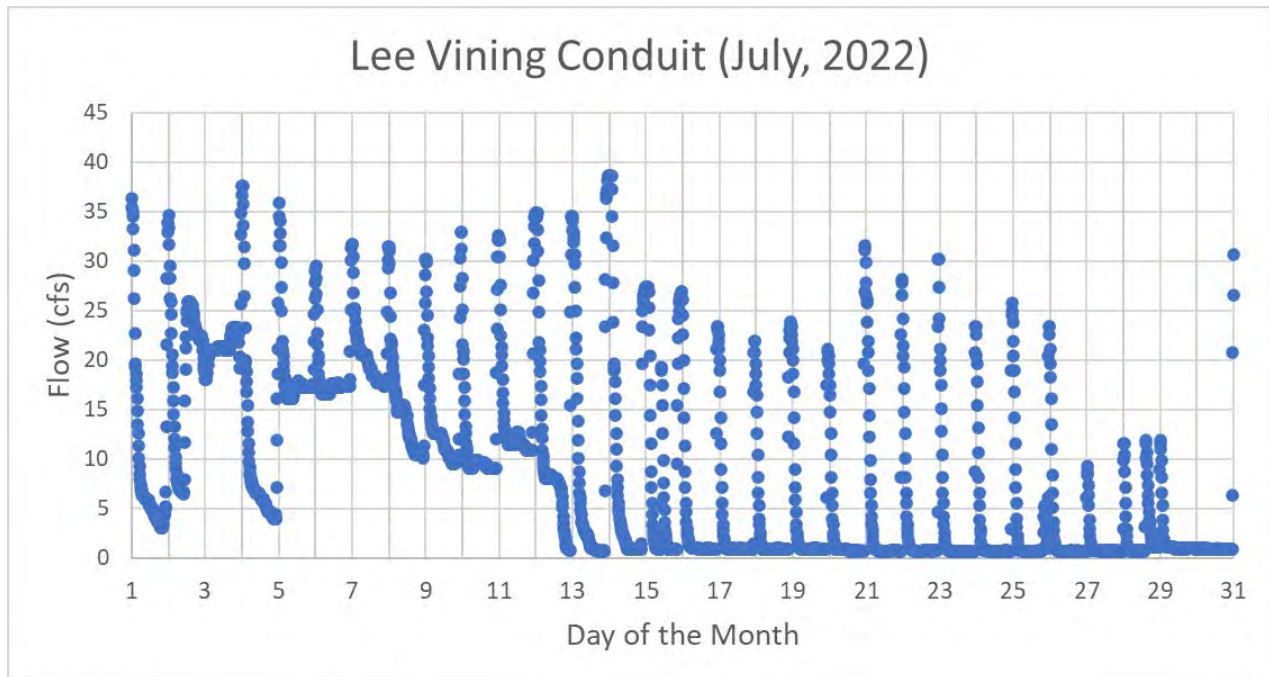


Figure 1 – 15-minute flow data for the Lee Vining Conduit, collected and shared by LADWP, during a period when this flow was augmenting Rush Creek. These fluctuations of up to 40 cfs in a few hours added to Rush Creek flow of 70 cfs on July 1 that slowly ramped down to 31 cfs on July 31. LADWP's water rights license specifies a maximum daily ramping rate of 10% for Rush Creek (this would be a limit of 7 cfs early in the month and 3 cfs at the end of the month) or 10 cfs, with a target ramping rate of 6% early in the month and 3% late in the month. For reference, LADWP's maximum permitted daily ramping rate is 20% on Lee Vining Creek—had this flow stayed in Lee Vining Creek, it would have augmented an average July flow of 31 cfs below the diversion dam, resulting in sub-daily fluctuations over 100% at times. No matter which creek the diversion dam directed this flow to, it would have exceeded these maximum ramping rates in LADWP's amended water rights licenses based on studies and recommendations found in the 2010 Synthesis Report.

The studies conducted downstream of the Lee Vining Diversion Dam are summarized in the 2010 Synthesis Report (McBain & Trush, Inc. and Ross Taylor and Associates, 2010), and were used to inform the conditions on diversion dam operation in the Amended Licenses. SCE and the Federal Energy Regulatory Commission (FERC) can use these important studies and requirements to inform license conditions that ensure the creek is protected from SCE's operations and encourage consistent management throughout the entire length of the stream based on the best science.

Impacts from hydropeaking span multiple study areas. Geomorphology, riparian, macroinvertebrate, recreation, and fish impacts should all be looked at in an integrated way.

Botanical surveys and impacts

Unfortunately, SCE chose not to extend the botanical study downstream to the Lee Vining Diversion Dam, with the exception of the Normalized Difference Vegetation Index (NDVI)--a study not conducted in the hydropeaking tidal zone and not likely to detect impacts from this type of operation. Frequent stage fluctuations in a narrow range of streambank would be expected to impact vegetation establishment and growth in that band, especially when seeds are deposited. During post-snowmelt peak seed dispersal, a steady drawdown would be a less impactful mode of operation. Understanding whether this is a problem would be helpful in determining if license conditions are needed to modify the seasonality, timing, and extent of the stage fluctuations.

Botanical Technical Study comments: It is concerning that despite California Department of Fish & Wildlife, US Forest Service, and California State Water Resources Control Board (SWRCB) consultations, Population 2 of Black Cottonwoods was unintentionally removed during large scale vegetation removal in fall 2022. The purpose was for wildfire risk reduction, however 8 healthy cottonwood saplings more than 200 feet away from the nearest structure would not appear to be a high wildfire risk, and the lack of care in this clearing indicates there may be a need for additional license conditions that protect important riparian species.

Macroinvertebrate impacts

Kennedy et al. 2016 documents how hydropeaking can prevent viable populations of many aquatic insects from inhabiting rivers. Hydropeaking can eliminate some groups of aquatic insects, such as mayflies, caddisflies, and stoneflies. In contrast, the few insects that lay eggs in open water, such as blackflies (*Simulium arcticum*), are mostly unaffected by hydropeaking. However, the results also suggest that hydropeaking practices could be modified to help alleviate some of these negative impacts.

The authors found that rivers with greater variation in the volumes of discharged water were also home to fewer types of aquatic invertebrates. However, their model does indicate that a diverse assemblage of aquatic insects can still exist in a managed river, as long as the size of the artificial tides created by hydropeaking is not too large. Invertebrates play a crucial role in providing food for fish. In order to avoid negative impacts on stream invertebrates, the goal should be to create a flow regime that mimics the characteristics of the natural hydrograph. Reducing hydropeaking during crucial egg-laying periods for aquatic insects could benefit river communities.

There does not appear to be a study report addressing these concerns.

Fish impacts and aquatic habitat mapping

The November-March SEF below the Lee Vining Diversion Dam is a constant flow rate (beginning in October in most years) and is designed to provide suitable holding habitat and to prevent “undesirable operational fluctuations caused by SCE’s upstream hydropower operations.” (McBain & Trush et al., 2010, page 42). The AQ-5 Operations Modeling Study found fluctuations in velocity of

up to 3 feet per second (fps; going from less than 2 fps to nearly 5 fps in Figure 5.5-5), and stage fluctuations of nearly 1.5 feet (Figure 5.5-4). Scruton et al. 2005 found “In winter, fish remained relatively sedentary in comparison with the summer foraging period, and this behavior may increase the likelihood for dewatering, stranding, and freezing. A secondary concern with hydropeaking regimes is the energetic cost to fish of moving to find suitable habitats, and during summer this cost could affect stored energy reserves, which could, in turn, affect overwinter survival.”

Seasonal implementation of hydropeaking raises other concerns. “Rapidly varying flows soon after emergence can either strand or flush newly emerged fry because they are relatively poor swimmers and have difficulty maintaining positions along the channel margins.” (Shepard et al. 2009)

Unfortunately, the aquatic habitat mapping study (AQ-3) does not focus on relevant metrics, such as fish habitat at different flow rates, and the effects on fish of rapidly varying those flow rates during sensitive seasons.

Geomorphic impacts

In addition to our comments on the geomorphology study that we emailed on 4/27/24, we have the following comments.

- Recreationists have observed log jams forming in Lee Vining Creek due to hydropeaking. This should be investigated. Stage change behind these jams and other obstructions could be significantly higher than where geomorphology was studied, resulting in greater impacts than modeled.
- Freeze-thaw events, a natural way stage fluctuates in winter, should be compared to hydropeaking stage changes in order to assess how the frequency and magnitude of stage changes exceeds the natural occurrence.
- The study did not detect geomorphic change from the less than 2-foot (Operations Model Study Figure 5.5-5) stage change from hydropeaking operations. We recommend separate analysis of the cross-section data focused on stages that occur during typical hydropeaking resource optimization operations and the particle sizes most susceptible to mobilization. These frequent repeated fluctuations in a similar stage range could be impacting the morphology, benthic macroinvertebrate community, vegetation community, and fish population in these ranges.

Operations Modeling Study Draft Technical Report AQ-5

We have not yet fully reviewed the operations model, and we look forward to participating in the 6/27/24 meeting focused on this model. Upon review of the study report, we have the following initial comments:

- Figure 5.2-1 appears to be missing data for October 2017-March 2018.
- Figure 5.5-3 has a y-axis that spans 100 feet, making it difficult to see the stage fluctuations. It should be split into 3 or 4 figures with a y-axis range of 5-10 feet.

Aquatic Invasive Plants Tech Report (AQ-4)

- No didymo was detected in any creeks last year despite its previous detection. Its detection wouldn't be expected in an extreme-wet year like 2023, and SCE should conduct the survey again this year and in the next dry year.

Other

- Recreation and public safety concerns of hydropeaking should be addressed.
- Local residents have observed American Dippers (*Cinclus mexicanus*) losing nests as a result of hydropeaking events. Seasonal timing and magnitude of hydropeaking during nesting season has the potential to continue to impact American Dippers.

Initial Protection, Mitigation, and Enhancement comments

- SCE should publicly share real-time data for reservoir storage and flows, including the hourly and telemetry requirements found [here](https://www.waterboards.ca.gov/waterrights/water_issues/programs/diversion_use/water_measurement.html#who-needs-to)(https://www.waterboards.ca.gov/waterrights/water_issues/programs/diversion_use/water_measurement.html#who-needs-to). Reporting these data to SWRCB appears to be required by state law, and these data are also essential for LADWP reporting and operations downstream. SCE's FERC license should have provisions that do not conflict with SWRCB requirements and where possible facilitate LADWP compliance with its water rights licenses. The California Department of Water Resources is seeking to add daily storage information from this project to the California Data Exchange Center, and as with other projects, can add a time lag that has addressed any market manipulation concerns at other projects. This is important for runoff tracking, downstream LADWP operations, restoration, and monitoring license requirements, as well as public recreation.
- SCE should share runoff forecast and planned monthly operations in April, as well as any updates or changes to those planned operations during the runoff year. This is important for downstream LADWP operations, restoration, and monitoring, as well as public recreation.
- SCE should coordinate operations with LADWP when requested. Downstream concerns are relevant where SCE's operations impact SWRCB water rights license requirements, which includes state-mandated restoration of Lee Vining Creek. There are times when a lack of coordination impairs the Lee Vining Creek restoration effort.
- Peak flow increases have been identified as important for Lee Vining Creek restoration, and we submitted a study plan request that was denied by SCE. In the absence of a new study, information is still available from the studies from downstream of the Diversion Dam, including the 2010 Synthesis Report, which included this recommendation. SCE operations should be modified where feasible to facilitate an increase in the frequency of peak flow magnitudes as outlined in the Synthesis Report and facilitate the restoration and maintenance of the stream ecosystem downstream of the diversion dam. Slightly modifying operations to increase peak flow magnitude when Tioga Lake Reservoir will fill would not impact hydro generation in many years and could have minimal impacts on generation in many more years. For example, this chart shows how adding 40 cfs from Tioga Lake to the peak flow could achieve the 2010 Synthesis Report goals for peak flow magnitude in many years.

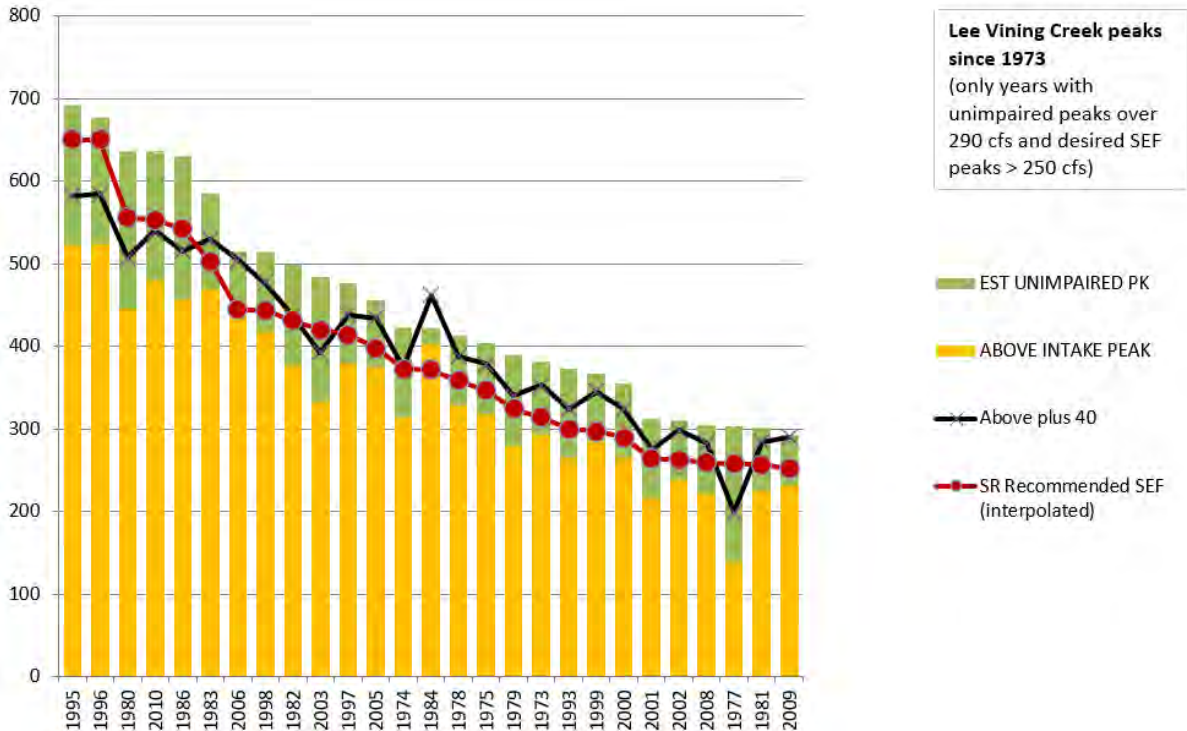


Figure 2 – A 2010 Mono Lake Committee analysis showed that adding 40 cfs from Tioga Lake Reservoir during the peak flow would result in exceeding Synthesis Report minimum goals for peak flow magnitude (when the black line exceeds the red line; in cfs at the diversion dam on the y-axis) in 20 out of 28 years, with improved performance toward the goal in the other years. The operations model (described in AQ-5) should be used to determine the feasibility and trade-offs of this operation.

Thank you for the opportunity to comment. Please contact me if you have any questions or would like to discuss these comments.

Sincerely,

Greg Reis
Information and Restoration Specialist
Greg@monolake.org

References

Kennedy, Theodore & Muehlbauer, Jeffrey & Yackulic, Charles & Lytle, David & Miller, Scott & Dibble, Kimberly & Kortenhoeven, Eric & Metcalfe, Anya & Baxter, Colden. (2016). Flow Management for Hydropower Extirpates Aquatic Insects, Undermining River Food Webs. *BioScience*. 66. 10.1093/biosci/biw059.

McBain & Trush, Inc. and Ross Taylor and Associates, 2010. Mono Basin Stream Restoration and Monitoring Program: Synthesis of Instream Flow Recommendations to the State Water Resources Control Board and the Los Angeles Department of Water and Power Final Report.

Scruton, D. A., C. J. Pennell, M. J. Robertson, L. M. N. Ollerhead, K. D. Clarke, K. Alfredsen , A. Harby, and R. S. Mckinley. 2005. Seasonal response of juvenile Atlantic salmon to experimental hydropeaking power generation in Newfoundland, Canada. *North American Journal of Fisheries Management* 25:964-974. *Note: Salmonids have similarities that make this study relevant, as such it was cited with regards to hydropeaking in Shepard, et al. 2009.*

Shepard, Brad, Ross Taylor, Ken Knudson, Chris Hunter. May 2009. Effects of Flow, Reservoir Storage, and Water Temperatures on Trout in Lower Rush and Lee Vining Creeks, Mono County, California

C-13_CA State Water Board Comments on LV Technical Reports

From: [Muro, Bryan@Waterboards](mailto:Muro.Bryan@Waterboards)
To: wayne.allen@sce.com
Cc: [Matthew Woodhall](#); [Martin Ostendorf](#); tristan.leong@usda.gov; [Chad Mellison@fws.gov](mailto:Chad.Mellison@fws.gov); [Lawson, Beth@Wildlife](#); [Moyer, Patricia \(Trisha\)@Wildlife](#); [Meese, Graham@Wildlife](#); [Carissa Shoemaker](#); [Shannon Luoma](#); [Finlay Anderson](#)
Subject: State Water Resources Control Board Comments on Draft Technical Reports of 2022-2023 Survey Finding for the Lee Vining Hydroelectric Project
Date: Tuesday, June 11, 2024 4:12:49 PM
Attachments: [SWRCB Coments Study Results 2024.pdf](#)

Dear Mr. Allen,

On April 9 and April 12, 2024, Southern California Edison Company distributed 4 and 6 draft technical reports, respectively, that document the 2022-2023 survey findings for the Lee Vining Hydroelectric Project for stakeholder comment and review. Please see the attached letter for the State Water Resources Control Board's comments.

Thank you,

Bryan Muro
Water Resources Control Engineer
Water Quality Certification Program
Division of Water Rights
State Water Resources Control Board
Phone: 916-327-8702
E-mail: Bryan.Muro@Waterboards.ca.gov



State Water Resources Control Board

June 11, 2024

Mr. Wayne Allen
Southern California Edison Company
1515 Walnut Grove Avenue
Rosemead, CA 91770
Sent via email: Wayne.Allen@sce.com

Lee Vining Hydroelectric Project
Federal Energy Regulatory Commission Project No. 1388
Mono County
Lee Vining Creek, Glacier Creek, Ellery Lake, Tioga Lake, and Saddlebag Lake

COMMENTS ON THE TECHNICAL REPORTS OF 2022-2023 SURVEY FINDINGS FOR THE LEE VINING HYDROELECTRIC PROJECT

Dear Mr. Wayne Allen:

Southern California Edison (SCE) owns and operates the Lee Vining Hydroelectric Project (Project), also referred to as Federal Energy Regulatory Commission (FERC) Project No. 1388. As part of Project relicensing, on April 9, 2024, SCE distributed four draft technical reports of the 2022 – 2023 survey findings to the stakeholders for comment and review. On April 12, 2024, SCE distributed the remaining six draft technical reports of the 2022 – 2023 survey findings. The draft technical reports included the following studies: (1) Stream and Reservoir Water Quality; (2) Lower Lee Vining Creek Channel Morphology, (3) Facilities Condition Assessment; (4) Aesthetic Resources; (5) Aquatic Invasive Plants Survey; (6) Project Lands and Roads Assessment; (7) General Wildlife Resources Survey; (8) General Botanical Resources; (9) Aquatic Habitat Mapping and Sediment Characterization; and (10) Operations and Hydrology Model. SCE currently operates the Project under a 30-year license issued by FERC which will expire in 2027.¹

On May 14, 2024, SCE held an in-person meeting at the Lee Vining Community Center in Lee Vining, to present findings to interested stakeholders and answer any questions.

¹ FERC issued the original 30-year license on February 4, 1997. The license will expire on January 31, 2027.

E. JOAQUIN ESQUIVEL, CHAIR | ERIC OPPENHEIMER, EXECUTIVE DIRECTOR

SCE's collaboration in conducting and refining environmental studies over the past two study seasons has been invaluable in identifying potential Project impacts. State Water Resources Control Board staff has reviewed the draft technical reports and hereby submits the enclosed comments in Attachment A: Comments on Lee Vining Hydroelectric Project 2022 – 2023 Draft Technical Reports.

If you have questions regarding this letter, please contact Bryan Muro, Project Manager, by email at Bryan.Muro@waterboards.ca.gov or by phone call to: (916) 327-8702. Written correspondence should be directed to:

State Water Resources Control Board
Division of Water Rights
Water Quality Certification Program
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P.O. Box 2000
Sacramento, CA 95812

Sincerely,



Bryan Muro
Project Manager
Water Quality Certification Program
Division of Water Rights

Attachment A: Comments on Lee Vining Hydroelectric Project 2022 – 2023 Draft Technical Reports.

cc: Ms. Debbie-Ann Reese, Acting Secretary
Federal Energy Regulatory Commission
Via e-filing to FERC Project Docket

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ATTACHMENT A: COMMENTS ON LEE VINING HYDROELECTRIC PROJECT 2022 –
2023 DRAFT TECHNICAL REPORTS

State Water Resources Control Board (State Water Board) staff are providing the following comments on Southern California Edison Company's (SCE) Lee Vining Hydroelectric Project (Project) draft technical reports.

1. WQ-1: Stream and Reservoir Water Quality

- Saddlebag and Tioga lakes had minimum summer 2023 pH values of 5.5 and 5.1, respectively. pH in the hypolimnia of both Saddlebag and Tioga lakes was similarly low in summer 2022, indicating an ongoing condition which did not respond strongly to water year type.

The Water Quality Control Plan for the Lahontan Region (Basin Plan) pH objective states that: "In fresh waters with designated beneficial uses of COLD² or WARM³, changes in normal ambient pH levels shall not exceed 0.5 pH units." Lee Vining Creek upstream of the Los Angeles Department of Water and Power (LADWP) diversion includes COLD as a beneficial use. Future discussions will help determine how protection, mitigation, and enhancement (PM&E) measures could be applied, to address low pH values.

Dissolved oxygen concentrations collected near the bottom of Saddlebag and Tioga lakes reached a minimum of 3.4 milligrams per liter (mg/L) and 0 mg/L in 2023, respectively. Dissolved oxygen was similarly low in summer 2022, indicating an ongoing condition which was not eliminated in a wet water year.

The Basin Plan objective for dissolved oxygen states: "The dissolved oxygen concentration, as percent saturation, shall not be depressed by more than 10 percent, nor shall the minimum dissolved oxygen concentration be less than 80 percent saturation." The Basin Plan further states for waters with beneficial uses of COLD with SPWN⁴ (such as Lee Vining Creek), the following additional criteria are applicable: (1) a 7 Day Mean concentration of 9.5 mg/L, and (2) a 1 Day Minimum of 8.0 mg/L.

While low dissolved oxygen in Project reservoirs is likely related to decomposition in the hypolimnion and sediments, the extent to which

² Cold Freshwater Habitat is defined as beneficial uses of waters that support cold water ecosystems, including, but not limited to, preservation and enhancement of aquatic habitats, vegetation, fish, and wildlife, including invertebrates.

³ Warm Freshwater Habitat is defined as beneficial uses of water that support warm water ecosystems including, but not limited to, preservation and enhancement of aquatic habitats, vegetation, fish, and wildlife, including invertebrates.

⁴ Spawning, Reproduction, and Development is defined as beneficial uses of water that support high quality aquatic habitat necessary for reproduction and early development of fish and wildlife.

Project operations promote or create these conditions at Tioga and Saddlebag lakes should be analyzed; particularly, maintaining Project reservoirs at maximum depth throughout the summer stratification period.

In addition, the Project does not appear to have a moderate level of algal productivity as implied in the response provided in WQ-1 to the State Water Board's 2023 comment letter. Water quality data collected in 2022 and 2023 as part of WQ-1 demonstrate that Project reservoirs are likely ultra-oligotrophic, as indicated by total phosphorus concentrations which were below the minimum detection limit at all sampling events.

As discussed below in this comment letter, mercury concentrations in fish in both Saddlebag and Tioga lakes are a concern, and understanding how Project operations may promote anoxia in reservoir sediments is critical to determining Project effects on beneficial uses. Low pH is also likely related to decomposition, but as with dissolved oxygen, the extent to which Project operations impact pH should be analyzed.

- Fecal coliform bacteria data collected in 2023 were within the Basin Plan objectives, however, data collected in 2022 ranged from 49 to 540 most probable number per 100 milliliters (MPN/100 mL) on a single sampling date. The Basin Plan objective for fecal coliform states that "The fecal coliform concentration during any 30-day period shall not exceed a log mean of 20/100 mL, nor shall more than 10 percent of all samples collected during any 30-day period exceed 40/100mL." Although sampling from 2022 may have been an isolated incident, it is important to understand: (1) under what conditions caused the exceedance; and (2) how frequently exceedances occur.

State Water Board staff look forward to continued discussion with SCE regarding the fecal bacteria data collected to determine appropriate PM&E measures associated with the Project moving forward.

- Turbidity sampling data collected within Lee Vining Creek Downstream of Poole Powerhouse (Site LVC-DSPP1) from May through July 2023 ranged from 0 to 50 Nephelometric Turbidity Unit (NTU). Data collected in Lee Vining Creek near Lower Lee Vining Campground (Site LVC-DSPP2) from May through July 2023 ranged from 0 to 150 NTU.

The Basin Plan objective for turbidity states "Waters shall be free of changes in turbidity that cause nuisance or adversely affect the water for beneficial uses. Increases in turbidity shall not exceed natural levels by more than 10 percent." From June through August of 2022, turbidity data shows that hydro-resource optimization events caused distinct, significant increases in turbidity. Relative to periods of stable low turbidity during minimum flows, clearly defined hydro-resource optimization events in

summer 2022 caused turbidity to increase roughly 100% and 133%, 0.2 mile and 4.3 miles downstream of Poole Powerhouse, respectively.

While equipment malfunctions and fouling can possibly skew data, there is still a concern for the correlation between peak flow rates and increased turbidity. State Water Board staff look forward to continued discussion with SCE to determine appropriate PM&E measures and prevent future exceedances.

- Mercury in fish tissue sampling data shows the mean total Mercury for fish in Saddlebag Lake and Tioga Lake is 0.121 and 0.056 micrograms per gram wet weight ($\mu\text{g/g ww}$), respectively. These data are within the USEPA 304(a) recommended criterion standards for concentrations of methylmercury in fish tissue of 0.2 mg/kg⁵. However, on May 2, 2017, the State Water Board adopted Resolution 2017-0027, which approved “Final Part 2 of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California - Tribal and Subsistence Fishing Beneficial Uses and Mercury Provisions.” Resolution 2017-0027 established new beneficial use definitions for tribal beneficial uses: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB), and Subsistence Fishing (SUB). Five new Mercury water quality objectives were established in the resolution for tribal beneficial uses.

The Lahontan Regional Water Resources Control Board is proposing to amend the Water Quality Control Plan for the Lahontan Region (Basin Plan) to designate Tribal Beneficial Uses to waterbodies in the Mono Basin, including Tioga and Saddlebag lakes. If the Basin Plan is amended, Saddlebag and Tioga lake mercury concentrations might exceed tribal beneficial use objectives.

2. AQ-5: Operations Modeling Study

- The intraday flow timeseries data presented in Figure 5.2-1 and used throughout Section 5.0 *Intraday and Hydraulic Model Description* should be provided to stakeholders for use and analysis.
- Please clarify whether any hydro-resource optimization events occurred in 2023. Information and timing of events specific to 2023 is relevant to interpreting turbidity results presented in WQ-1 Stream and Reservoir Water Quality.
- Section 5.3 *Model Calibration* states that “...the model identified 931 hydro-resource optimization events, 82 of which directly corresponded with a generation peak event.” To better understand the model output,

⁵ 1 mg/kg = 1 $\mu\text{g/g}$

please explain whether the additional 18% of events detected by the model are false positives and thus a potential overestimation of hydro-resource optimization events, or whether the additional detected events may have been caused by triggers other than price peaking, as suggested by Figure 5.3-3. If 18% of events not associated with generation do represent an overestimation, it would be informative to specify whether there is a seasonal or annual trend in those events.

- In Section 5.5.2 *Hydraulic Model Sample Results*, it does not appear that the March hydro-resource optimization events selected for analysis are representative of the range of flows that often occur during the events. Hydro-resource optimization events in summer 2022 frequently reached flows of 100 to 110 cubic feet per second (cfs) and maintained that maximum flow for several hours. The March events selected for hydraulic analysis reach a very brief peak of 81 cfs, but are primarily stable at 58 cfs. The water depth and flow velocity modeling must be conducted at 100 to 110 cfs to accurately represent potential changes downstream.
- The downstream-most cross section used for water depth and velocity analysis is located only 0.75 mile downstream of Poole Powerhouse, but the reach of Lee Vining Creek impacted by hydro-resource optimization extends an additional roughly 4.5 miles and passes multiple designated campgrounds. To understand the attenuation and timing of hydro-resource optimization events as flow moves downstream through the reach impacted by rapid flow fluctuations, the hydraulic modeling should be extended to the cross sections collected for sites LLV-G2 and LLV-G3 as specified in AQ-6 Lower Lee Vining Creek Channel Morphology.
- As currently presented in figures 5.5-4 and 5.5-5, during hydro-resource optimization events maximum water depth and velocity increased by an approximate peak of 1.5 feet and 2.5 feet per second, respectively. At maximum event flows of 110 cfs, depth and velocity are expected to increase even more drastically. These changes occur very rapidly and often take place in the late afternoon or early evening, and as such may present a safety concern to recreationists downstream, particularly near high-use recreation zones such as campgrounds.

3. AQ-4: Aquatic and Invasive Plants

- Surveys conducted along Project reaches in 2023 found no evidence of *Didymosphenia geminata* (Didymo). During the May 14, 2024 meeting, stakeholders stressed Didymo was present along certain parts of the Project reaches in 2022. Didymo may have been scoured and washed further downstream due to elevated flow rates through the reach.

Didymo is historically documented in Lee Vining Creek. Once Didymo enters a system, it is almost impossible to eradicate. SCE should consider posting signs to inform visitors of its presence and remind recreationalists to check and clean their equipment to prevent the Didymo from spreading. The National Park Service provides guidelines to reduce the impact of Didymo. Link below:

[Invasive Species: Didymo or "Rock Snot" - Yosemite National Park \(U.S. National Park Service\) \(nps.gov\)](https://www.nps.gov/learn/education/field-trips/field-trip-activities/field-trip-activities-101.htm)

4. AQ-6: Lower Lee Vining Creek Channel Morphology, and AQ-3: Aquatic Habitat Mapping and Sediment Characterization

- In AQ-6, Section 3.2.4 *Bed Mobility and Sediment Transport* states that “Peak discharge for the 2023 water year was calculated by combining flows measured at United States Geological Survey (USGS) Gage #10287770 (SCE gage 353) and USGS Gage #10287762 (SCE gage 363). However, as indicated in AQ-5 Operations Modeling Study, there is a significant unregulated inflow into Lee Vining Creek downstream of Ellery Lake. Particularly in wet years, the Warren Fork and other ungauged tributaries provide substantial flow in lower Lee Vining Creek. It is likely that the peak discharge used in the HEC-RAS model significantly underestimates 2023 peak flow. Figure 3.2-1 may also reflect this discrepancy, as the peak flow at the LADWP gage is roughly 100 cfs greater than that labeled “Total SCE”. This may also be reflected in figures 4.1-4, 4.2-4, and 4.3-4, which all indicate that sediment larger than the predicted critical D_{50} was mobilized. To better interpret the results of AQ-6, it would be helpful to (1) provide discussion or estimated quantification of the underestimation of peak flow, or (2) work with the model developed for AQ-5 to incorporate a modeled peak flow from the unregulated tributaries downstream of Ellery Lake.

Given that bed particle size distribution field measurements were conducted in a dry year (2022), the subsequent wet year (2023) results from tracer rocks and modeling indicate that many smaller sediments measured in 2022 may have been mobilized during 2023 peak flows. Notably, AQ-3 Table 4.2-1 indicates that spawning gravels in lower Lee Vining Creek downstream of Poole Powerhouse were of lower quality, and less abundant than in Glacier Creek below Tioga Dam and upper Lee Vining Creek downstream of Slate Creek. Lower Lee Vining Creek also had no spawning gravel with an “excellent” quality score, although “excellent” was the most common score in upstream reaches where gravels were present. Discussion of Project impacts on sediment supply, accumulation, and mobilization, particularly of gravels relevant to fish spawning habitat elaborating on the results of AQ-3, should be included in the Draft License Application.

5. TERR-2: General Wildlife Resources Survey

- Yosemite toads (*Anaxyrus canorus*) are currently listed as threatened under the federal Endangered Species Act and designated as a Species of Special Concern by the California Department of Fish and Wildlife. Visual encounter and acoustic recording survey methods only encountered confirmed Yosemite toads in the South of Saddlebag Lake survey area. The study states Yosemite toads are known to interbreed with the Western toad (*Anaxyrus boreas*) with the closest known location being approximately 4.7 miles north of Saddlebag Lake. DNA samples collected in 2023 are currently being processed and compared against a hybrid genetic panel developed by the El Dorado National Forest and are not yet ready for review.

The results of the DNA sampling conducted in 2023 are vital in helping determine if Project operations affect critical habitat for the Yosemite toad. DNA sampling will also determine the frequency of interbreeding between the Yosemite and Western toads. State Water Board staff look forward to seeing the DNA sampling results to better understand potential Project effects.

If the populations of toad located in Upper Lee Vining Creek and adjacent to Tioga Lake are determined to be *Anaxyrus boreas*, the draft license application should include discussion regarding the extent to which Project operations (i.e., flows within Lee Vining Creek and Tioga Lake levels) support habitat for these populations. Additional data collection may be required to understand whether Yosemite toad populations in these two areas are stable, or how they may respond to Project operations under various water year types.

C-14_RE_USFS Comments on LV Technical Reports

From: [Sill, Nathan - FS, CA](#)
To: [Carissa Shoemaker](#); [Irons, Sheila - FS, CA](#)
Cc: [Shannon Luoma](#)
Subject: RE: [External Email]Lee Vining tech report comments
Date: Wednesday, June 12, 2024 2:50:52 PM
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.jpg](#)

Hi Carissa, I was able to skim through the WL report, and the only thing that stood out to me was the assumptions about egg masses not belonging to Yosemite toads if those observations weren't tied to positive auditory observations. I think we would assume the opposite, just because the acoustic monitors didn't capture a call doesn't mean those egg masses aren't Yosemite toads. My guess is the USFWS would want us to approach it this way. Other than that, no substantive comments. I think Andrew may have had a similar comment as well.

Thanks.



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**Caring for the land and serving
people**

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Wednesday, June 12, 2024 1:58 PM
To: Sill, Nathan - FS, CA <nathan.sill@usda.gov>; Irons, Sheila - FS, CA <sheila.irons@usda.gov>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: [External Email]Lee Vining tech report comments

[External Email]

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Hello Nathan and Sheila,

I just wanted to check in and see if we should be expecting comments from USFS on the Lee Vining Tech Reports. You can email them to me directly or upload to this folder if the file is large: [LV Tech Report Comments June 2024](#)

Thank you!

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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C-15.1_LV HEC-RAS Model review

From: [Carissa Shoemaker](#)
To: [Isha Deo](#); [Finlay Anderson](#); beth.lawson@wildlife.ca.gov
Cc: [Shannon Luoma](#)
Subject: Lee Vining HEC-RAS Model review

Microsoft Teams Need help? <<https://aka.ms/JoinTeamsMeeting?omkt=en-US>>

Join the meeting now <https://teams.microsoft.com/l/meetup-join/19%3ameeting_MTg4YzQyZDEtYTY1NC00N2FILTYyMGltYTU3NDJkNmRhNmI2%40thread.v2/0?context=%7b%22Tid%22%3a%22adc6e70c-c575-40a4-9676-24da4a1fdce9%22%2c%22Oid%22%3a%22527874e1-a95e-47f0-a80b-501855167fec%22%7d>

Meeting ID: 257 477 256 579

Passcode: Bp3Zwx

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Find a local number <<https://dialin.teams.microsoft.com/d08180aa-712f-4098-8161-d183ecab7d97?id=160791120>>

Phone conference ID: 160 791 120#

For organizers: Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=527874e1-a95e-47f0-a80b-501855167fec&tenantId=adc6e70c-c575-40a4-9676-24da4a1fdce9&threadId=19_meeting_MTg4YzQyZDEtYTY1NC00N2FILTYyMGltYTU3NDJkNmRhNmI2@thread.v2&messageId=0&language=en-US> | Reset dial-in PIN <<https://dialin.teams.microsoft.com/usp/pstnconferencing>>

<<https://www.kleinschmidtgroup.com/wp-content/themes/ironstrap/dist/images/logo-footer.gif>>

From: [Isha Deo](#)
To: [Carissa Shoemaker](#); [Finlay Anderson](#)
Subject: Isha Deo shared the folder "HEC-RAS for Beth_20240620" with you
Date: Thursday, June 20, 2024 8:39:19 AM
Attachments: [AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)

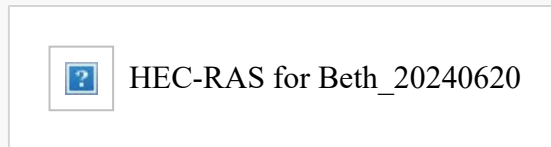



Isha Deo invited you to edit a folder

Hi Beth,

As discussed, I've uploaded a zip file of the HEC-RAS model developed for the AQ-5 operations study at Lee Vining. Please reach out with any questions or additional requests.

Isha



 This invite will only work for you and people with existing access.

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From: [Washington, Jameisha - FS, CA](#)
To: [Carissa Shoemaker](#); [Barnett, Adam - FS, CA](#)
Cc: [Dirgo, Dannon - FS, CA](#); [Hartman, Blaine - FS, CA](#); [Irons, Sheila - FS, CA](#); [Shannon Luoma](#); [Angela Whelpley](#); [Finlay Anderson](#)
Subject: RE: [External Email]Lee Vining REC TWG follow up
Date: Thursday, June 27, 2024 9:13:17 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.jpg](#)

Adam's information is correct. Tioga Pass Resort and Saddlebag Lake Resort did not operate in 2022 or 2023. There is one O&G that operates in the Hoover wilderness, but I don't believe there were any trips. Blaine Hartman may be able to provide information.

~Jameisha

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Wednesday, June 26, 2024 12:31 PM
To: Barnett, Adam - FS, CA <adam.barnett@usda.gov>
Cc: Dirgo, Dannon - FS, CA <dannon.dirgo@usda.gov>; Washington, Jameisha - FS, CA <Jameisha.Washington@usda.gov>; Hartman, Blaine - FS, CA <Blaine.Hartman@usda.gov>; Irons, Sheila - FS, CA <sheila.irons@usda.gov>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Angela Whelpley <Angela.Whelpley@KleinschmidtGroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>
Subject: RE: [External Email]Lee Vining REC TWG follow up

Thank you, Adam!

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Barnett, Adam - FS, CA <adam.barnett@usda.gov>
Sent: Wednesday, June 26, 2024 1:50 PM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Cc: Dirgo, Dannon - FS, CA <dannon.dirgo@usda.gov>; Washington, Jameisha - FS, CA <Jameisha.Washington@usda.gov>; Hartman, Blaine - FS, CA <Blaine.Hartman@usda.gov>; Irons, Sheila - FS, CA <sheila.irons@usda.gov>; Barnett, Adam - FS, CA <adam.barnett@usda.gov>
Subject: RE: [External Email]Lee Vining REC TWG follow up

Hi Carissa,

Apologies for the delayed response to your request. Below are campground occupancy rates

for the upper Lee Vining canyon area. We don't have 2023 data on hand, but the campgrounds were barely open that year due to snow. 2024 should be a good representation if average conditions continue through the summer.

2021

Ellery Lake 92%
Junction 85%
Saddlebag Lake 81%
Sawmill 52%
Tioga Lake 88%
Trailhead Group 76%

2022

Ellery Lake 85%
Junction 84%
Saddlebag Lake 69%
Sawmill 46%
Tioga Lake 89%
Trailhead Group 59%

Jameisha will be able to give you info on other recreation special use permits in the area, but the two resorts in the area did not operate in 2023.

Let me know if you need anything else related to recreation.

Thanks



Adam Barnett
Public Services Staff Officer

Forest Service
Inyo National Forest

p: 760-873-2461
c: 760-920-8104
adam.barnett@usda.gov

351 Pacu Lane, Suite 200
Bishop, CA 93514
www.fs.usda.gov



**Caring for the land and serving
people**

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Monday, April 1, 2024 10:55 AM

To: Barnett, Adam - FS, CA <adam.barnett@usda.gov>; Dirgo, Dannon - FS, CA

<dannon.dirgo@usda.gov>

Cc: Irons, Sheila - FS, CA <sheila.irons@usda.gov>; Heller, Stephanie - FS, CA <stephanie.heller@usda.gov>; Eric.Rios-Bretado@usda.gov; Rowe, Courtney - FS, CA <Courtney.Rowe@usda.gov>; Sanchez, Monique - FS, CA <monique.sanchez@usda.gov>; Washington, Jameisha - FS, CA <Jameisha.Washington@usda.gov>; Wiese, Michael - FS, CA <michael.wiese@usda.gov>; Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Angela Whelpley <Angela.Whelpley@KleinschmidtGroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>

Subject: [External Email]Lee Vining REC TWG follow up

Some people who received this message don't often get email from carissa.shoemaker@kleinschmidtgroup.com.
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[External Email]

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Hello Adam and Dannon,

As a follow up to our Lee Vining Recreation TWG meeting we had at the end of February, I looked at our past TWG notes to see if we have discussed trail counter proposed locations. I wasn't able to find any discussion directly related to trail counter locations, but they were proposed initially because they were used in the Bishop Creek REC-1 Study and partially to document dispersed use in Yosemite toad habitat on the south end of Saddlebag Lake. The REC-1 Study Plan has included trail counters since the initial version filed with the PAD in August 2021. Regardless, we intend to include an additional trail counter on the west side of Saddlebag Dam to capture recreationists crossing the dam, as you suggested during our TWG meeting.

We are also hoping you can provide us with campground use data, concessionaire data, and special use permit data from 2023. I believe Adam said that the district special use permit coordinator would have the latter. We will use this data in the Technical Reports and Draft License Application.

Thank you, let me know if you have any questions.

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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Protection, Mitigation, and Enhancement Development

Item #	Date Sent	Stakeholder Group	Type of Correspondence/Consultation Event	Document Type
D-01.1	5/21/2024	LV Stakeholders	Poll re LV PME meeting date	Email
D-01.2	5/24/2024	USFS	Discussion USFS re LV PME meeting date	Email
D-01.3	5/24/2024	CDFW	Discussion CDFW re LV PME meeting date	Email
D-02	5/29/2024	LV Stakeholders	Meeting Invitation re 6.11.24 LV PME discussion	Email
D-03.1	6/11/2024	LV Stakeholders	Notice to Stakeholders re LV PME list	Email
D-03.2	6/11/2024	LV Stakeholders	Poll re LV PME meeting #2	Email
D-03.3	6/11/2024	USFS	USFS reply re LV PME Meeting date	Email
D-03.4	6/11/2024	CDFW	CDFW reply re LV PME meeting date	Email
D-04	6/18/2024	LV Stakeholders	Meeting Invitation re PME discussion #2	Email
D-05.1	7/5/2024	Relicensing Team	Link to Relicensing Team re HEC-RAS files for LV intraday operations hydrology model	Email
D-05.2	7/5/2024	Mono Lake Committee	Link to Mono Lake re: HEC-RAS files for LV intraday operations hydrology model	Email
D-06.1	7/6/2024	USFS	Email re updated USFS contact	Email
D-06.2	7/10/2024	USFS	Response to email re updated USFS contact	Email
D-07.1	7/17/2024	USFS	Email to USFS staff re LAND-2 Aesthetics Technical Report (attached)	Email
D-07.2	7/17/2024	USFS	USFS confirming LV LAND-2 Aesthetics Technical Report	Email
D-08	7/31/2024	TWG Members	Email to LV TWG members re PME meeting 3 agenda and schedule	Email
D-09	8/1/2024	LV Stakeholders	Notice re LV PME discussion	Email

Item #	Date Sent	Stakeholder Group	Type of Correspondence/Consultation Event	Document Type
D-10.1	8/1/2024	TWG Members	Email to LV TWG members with PME meeting #4 scheduling poll, resource TBD	Email
D-10.2	8/6/2024	CDFW	Email from CDFW re PME Meeting #4 schedule	Email
D-10.3	8/9/2024	TWG Members	Meeting Invitation re PME discussion #4	Email
D-10.4	8/15/2024	USFS	Discussion confirming USFS responses to PME discussion #4	Email
D-11.1	8/1/2024	TWG Members	Email to LV TWG members with PME meeting #5 scheduling poll, resource TBD	Email
D-11.2	8/9/2024	TWG Members	Meeting Invitation re PME discussion #5	Email
D-11.3	8/20/2024	TWG Members	Notice re poll to reschedule PME Meeting #5	Email
D-12.1	8/8/2024	LADWP	Discussion re meeting schedule re LC diversion flows	Email
D-12.2	8/9/2024	LADWP	Meeting invitation for SCE and LADWP to discuss LV questions	Email
D-13	8/15/2024	LV Stakeholders	Re LV Ops Model PME meeting 4 discuss min. instream flows	Email
D-14	8/27/2024	LV Stakeholders	Notice re filing of DLA and invitation to review	Email
D-15	9/5/2024	USFS	Notice re updated USFS TWG contact	Email
D-16.1	9/6/2024	Resource Agencies	Discussion with resource agencies re Ops Model Flows scenarios	Email
D-16.2	9/10/2024	Resource Agencies	Discussion with resource agencies re Ops Model Flows scenarios	Email
D-16.3	9/16/2024	Resource Agencies	Updated LV Operations model for review (not attached)	Email
D-17	9/13/2024	TWG Members	Poll re LV PME meeting #6	Email
D-18.1	9/20/2024	TWG Members	Meeting invitation re PME discussion #6	Email
D-18.2	9/20/2024	USFS, CDFW	Discussion re PME #6 meeting	Email

Item #	Date Sent	Stakeholder Group	Type of Correspondence/Consultation Event	Document Type
D-18.3	11/1/2024	TWG Members	D-18.3_2024.11.01_Email with Meeting 6 PPT Slides	Email
D-19	9/30/2024	CDFW	Discussion re LV stocking data	Email
D-20.1	10/23/2024	TWG Members	Poll re LV PME meeting #7	Email
D-20.2	10/31/2024	TWG Members	Meeting invitation re PME discussion #7	Email
D-20.3	11/19/2024	TWG Members	LV PME Discussion #7 agenda with updated Ops Model (not attached)	Email
D-21.1	10/23/2024	LV Stakeholders	Poll re LV PME meeting #8	Email
D-21.2	11/14/2024	TWG Members	Meeting invitation re PME discussion #8	Email
D-22	10/23/2024	LV Stakeholders	Poll re LV PME meeting #9	Email
D-23	10/25/2024	TWG Members	Notice re DLA links and hydro-resource optimization analysis	Email
D-24	10/28/2024	USFS	LV PME meeting dates confirmation	Email
D-25.1	10/31/2024	USFS	LV Recreation PME meeting scheduling	Email
D-25.2	11/1/2024	USFS	Follow up discussion re LV Recreation PME meeting scheduling	Email
D-25.3	11/1/2024	USFS	Follow up discussion re LV Recreation PME meeting scheduling	Email
D-25.4	11/1/2024	USFS	Follow up discussion re LV Recreation PME meeting scheduling	Email
D-26.1	10/23/2024	CDFW	Email re LV fish stocking	Email
D-26.2	11/8/2024	CDFW	Email re LV fish stocking meeting scheduling	Email
D-27.1	11/14/2024	CDFW	Email to Beth (CDFW) with updated Ops Model (not attached)	Email
D-27.2	11/19/2024	CDFW	Discussion with CDFW re updated Ops Model	Email
D-28	11/15/2024	CDFW	Email re: LV 2024 Fish Stocking Data	Email

Item #	Date Sent	Stakeholder Group	Type of Correspondence/Consultation Event	Document Type
D-29-1	12/2/2024	USFS	Discussion re recreation data	Email
D-29-2	12/6/2024	USFS	Discussion re recreation data	Email
D-29.3	1/16/2025	USFS	Discussion re recreation data	Email
D-30	12/11/2024	TWG Members	Notice re PPT for 12-12-24 PME discussion #8	Email
D-31.1	12/23/2024	TWG Members	LV Recreation Use and Needs (REC-1) study data (not attached)	Email
D-31.2	12/24/2024	CDFW	Discussion re LV Recreation Use and Needs (REC-1) study data	Email
D-31.3	1/2/2025	TWG Members	LV Recreation Use and Needs (REC-1) study data (not attached)	Email
D-31.4	1/20/2025	TWG Members	LV Recreation Use and Needs (REC-1) study data (not attached)	Email

CDFW = California Department of Fish and Wildlife; DLA = Draft License Application; HEC-RAS = Hydrologic Engineering Center River Analysis System; LADWP = Los Angeles Department of Water and Power; LV = Lee Vining; PME = protection, mitigation, and enhancement; PPT = PowerPoint; TBD = to be determined; TWG = Technical Working Group; USFS = U.S. Forest Service;

D-01.1_Poll re LV PME meeting date




From: [Carissa Shoemaker](#)
To: [Andrew.Lyons-gould@usda.gov](#); [adam.cohen@waterboards.ca.gov](#); [adam.barnett@usda.gov](#); [Greg Reis; Erdman, James@Wildlife](#); [Bartshe Miller](#); [Luu, Bryant@Wildlife](#); [Mellison, Chad](#); [dannon.dirgo@usda.gov](#); [Meese, Graham@Wildlife](#); [Meagher, Mary - FS, CA](#); [Robert Di Paolo](#); [sheila.irons@usda.gov](#); [tristan.leong@usda.gov](#); [bryan.muro@waterboards.ca.gov](#); [nathan.sill@usda.gov](#)
Cc: [Shannon Luoma](#); [Finlay Anderson](#); [Matthew Woodhall](#); [Seth Carr](#); [Martin Ostendorf](#)
Subject: Lee Vining PM&E discussion - poll for date
Date: Tuesday, May 21, 2024 7:32:00 PM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello Lee Vining stakeholders!

As a follow up to our meeting last week, the relicensing team would like to set a time to present and discuss the proposed PM&E measures associated with the Proposed Action that you might expect to see in the Draft License Application. As a reminder, these measures will primarily consist of existing effort associated with the current license. Please use the poll below to let us know which time(s) you are available for this meeting.

Let me know if you have any questions.

Thank you!

 **Scheduling poll**
Lee Vining PME discussion - poll for date
 1 hour 30 minutes duration
 7 time options
[Vote](#) [View all your polls](#)

- Monday June 10, at 10 or 1
- Tuesday June 11, at 9 or 10:30
- Wednesday June 12, at 9 or 10:30
- Thursday June 13, at 1

Carissa Shoemaker
Licensing Coordinator



D-01.1_Poll re LV PME meeting date

C: 907-575-0294

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D-01.2_Discussion USFS re LV PME meeting date

From: [Carissa Shoemaker](#)
To: tristan.leong@usda.gov
Cc: [Shannon Luoma](#)
Subject: FW: Lee Vining PM&E discussion - poll for date
Date: Friday, May 24, 2024 10:20:00 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hi Tristan!

When you have a second today, can you let me know (in the poll below) which of the days would work for you to chat about Lee Vining PMEs?

At the moment, Tuesday June 11 at 9 looks like it might be the best option for the majority of us.

Thanks

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Carissa Shoemaker
Sent: Tuesday, May 21, 2024 7:33 PM
To: Andrew.Lyons-gould@usda.gov; adam.cohen@waterboards.ca.gov; adam.barnett@usda.gov; Greg Reis <greg@monolake.org>; Erdman, James@Wildlife <James.Erdman@wildlife.ca.gov>; Bartshe Miller <bartshe@monolake.org>; Luu, Bryant@Wildlife <Bryant.Luu@wildlife.ca.gov>; Mellison, Chad <Chad_Mellison@fws.gov>; dannon.dirgo@usda.gov; Meese, Graham@Wildlife <graham.meese@wildlife.ca.gov>; Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>; Robert Di Paolo <robbie@monolake.org>; sheila.irons@usda.gov; tristan.leong@usda.gov; bryan.muro@waterboards.ca.gov; nathan.sill@usda.gov
Cc: Shannon Luoma <Shannon.Luoma@KleinschmidtGroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Matthew Woodhall <Matthew.Woodhall@sce.com>; Seth Carr <seth.carr@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>
Subject: Lee Vining PM&E discussion - poll for date

Hello Lee Vining stakeholders!


As a follow up to our meeting last week, the relicensing team would like to set a time to present and discuss the proposed PM&E measures associated with the Proposed Action that you might expect to see in the Draft License Application. As a reminder, these measures will primarily consist of existing effort associated with the current license. Please use the poll below to let us know which time(s) you are available for this meeting.

Let me know if you have any questions.

Thank you!

Scheduling poll

Lee Vining PME discussion - poll for date

 1 hour 30 minutes duration

 7 time options

[Vote](#)

[View all your polls](#)

- Monday June 10, at 10 or 1
- Tuesday June 11, at 9 or 10:30
- Wednesday June 12, at 9 or 10:30
- Thursday June 13, at 1

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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D-01.3_Discussion CDFW re LV PME meeting date

From: Meese.Graham@Wildlife
To: Carissa.Shoemaker
Cc: Shannon.Luoma
Subject: RE: Lee Vining PM&E discussion - poll for date
Date: Friday, May 24, 2024 12:35:06 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.jpg](#)

Great, that time will work for me

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Friday, May 24, 2024 12:33 PM
To: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: Lee Vining PM&E discussion - poll for date

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Thank you, Graham!

I'll keep that in mind when scheduling. Right now, the 11th at 9 is the best for the majority. We're just waiting on a couple more folks to respond before making it official.

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Sent: Friday, May 24, 2024 12:31 PM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: Lee Vining PM&E discussion - poll for date

Hi Carissa,

I've filled out the meeting poll and wanted to let you know that I am available on the 10th or the 9 am slot on the 11th but have planned a backpacking trip the rest of the week and wouldn't be able to attend. As the FERC coordinator representing CDFW I'd really like to participate in this meeting so just wanted to request that one of the time slots on the 10th or early 11th be selected.

Thank you,

Graham

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Wednesday, May 22, 2024 9:40 AM
To: Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>
Subject: RE: Lee Vining PM&E discussion - poll for date

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Hi Bryan and Graham, apologies for the confusion. I think I've resolved the issue and have included the whole group now.
Let me know if you have any other issues!

Thanks

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

From: Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>
Sent: Wednesday, May 22, 2024 9:13 AM
To: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>; Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>; Andrew.Lyons-gould@usda.gov; Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; adam.barnett@usda.gov; Greg Reis <greg@monolake.org>; Erdman, James@Wildlife <James.Erdman@wildlife.ca.gov>; Bartshe Miller <bartshe@monolake.org>; Luu, Bryant@Wildlife <Bryant.Luu@wildlife.ca.gov>; Mellison, Chad <Chad_Mellison@fws.gov>; dannon.dirgo@usda.gov; Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>; Robert Di Paolo <robbie@monolake.org>; sheila.ironson@usda.gov; tristan.leong@usda.gov; nathan.sill@usda.gov
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Matthew Woodhall <Matthew.Woodhall@sce.com>; Seth Carr <seth.carr@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>
Subject: RE: Lee Vining PM&E discussion - poll for date

Hi Carissa,

Same goes for me, it only has SCE and Kleinschmidt folks listed on the poll.

Thank you,

Bryan Muro

Water Resources Control Engineer
Water Quality Certification Program
Division of Water Rights
State Water Resources Control Board
Phone: 916-327-8702
E-mail: Bryan.Muro@Waterboards.ca.gov

From: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Sent: Wednesday, May 22, 2024 9:12 AM
To: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>; Andrew.Lyons-gould@usda.gov; Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; adam.barnett@usda.gov; Greg Reis <greg@monolake.org>; Erdman, James@Wildlife <James.Erdman@wildlife.ca.gov>; Bartshe Miller <bartshe@monolake.org>; Luu, Bryant@Wildlife <Bryant.Luu@wildlife.ca.gov>; Mellison, Chad <Chad_Mellison@fws.gov>; dannon.dirgo@usda.gov; Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>; Robert Di Paolo <robbie@monolake.org>; sheila.ironson@usda.gov; tristan.leong@usda.gov; Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; nathan.sill@usda.gov
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Matthew Woodhall <Matthew.Woodhall@sce.com>; Seth Carr <seth.carr@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>
Subject: RE: Lee Vining PM&E discussion - poll for date

EXTERNAL:

Hi Carissa, I don't see my name on the list for Scheduling poll. Can you please add me to the poll

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Tuesday, May 21, 2024 7:33 PM
To: Andrew.Lyons-gould@usda.gov; Cohen, Adam@Waterboards <Adam.Cohen@Waterboards.ca.gov>; adam.barnett@usda.gov; Greg Reis <greg@monolake.org>; Erdman, James@Wildlife <James.Erdman@wildlife.ca.gov>; Bartshe Miller <bartshe@monolake.org>; Luu, Bryant@Wildlife <Bryant.Luu@wildlife.ca.gov>; Mellison, Chad <Chad_Mellison@fws.gov>; dannon.dirgo@usda.gov; Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>; Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>; Robert Di Paolo <robbie@monolake.org>; sheila.ironson@usda.gov; tristan.leong@usda.gov; Muro, Bryan@Waterboards <Bryan.Muro@Waterboards.ca.gov>; nathan.sill@usda.gov
Cc: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Matthew Woodhall <Matthew.Woodhall@sce.com>; Seth Carr <seth.carr@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>
Subject: Lee Vining PM&E discussion - poll for date




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Hello Lee Vining stakeholders!

As a follow up to our meeting last week, the relicensing team would like to set a time to present and discuss the proposed PM&E measures associated with the Proposed Action that you might expect to see in the Draft License Application. As a reminder, these measures will primarily consist of existing effort associated with the current license. Please use the poll below to let us know which time(s) you are available for this meeting.

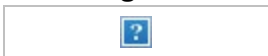
Let me know if you have any questions.

Thank you!

 **Scheduling poll**
Lee Vining PME discussion - poll for date
 1 hour 30 minutes duration
 7 time options
[Vote](#) [View all your polls](#)

- Monday June 10, at 10 or 1
- Tuesday June 11, at 9 or 10:30
- Wednesday June 12, at 9 or 10:30
- Thursday June 13, at 1

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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D-02_Meeting Invitation re 6.11.24 LV PME discussion

From: [Carissa Shoemaker](#)
To: ["Adam.Perez@ladwp.com"](mailto:Adam.Perez@ladwp.com); [Shannon Luoma](#); ["Alisa.Ellsworth@wildlife.ca.gov"](mailto:Alisa.Ellsworth@wildlife.ca.gov); [Finlay Anderson](#); ["andrea@accessfund.org"](mailto:andrea@accessfund.org); [Kelly Larimer](#); ["anne_mankowski@fws.gov"](mailto:anne_mankowski@fws.gov); [Matthew Woodhall](#); ["ashley.blytheverstock@usda.gov"](mailto:ashley.blytheverstock@usda.gov); [Martin Ostendorf](#); ["audry.williams@sce.com"](mailto:audry.williams@sce.com); [Andrew Lyons-gould@usda.gov](#); ["beth.lawson@wildlife.ca.gov"](mailto:beth.lawson@wildlife.ca.gov); Adam.Cohen@Waterboards.ca.gov; ["carl@fortindependence.com"](mailto:carl@fortindependence.com); adam.barnett@usda.gov; ["chair@bridgeportindiancolony.com"](mailto:chair@bridgeportindiancolony.com); greg@monolake.org; ["char54lange@gmail.com"](mailto:char54lange@gmail.com); James.Erdman@wildlife.ca.gov; ["cheyenne.stone@bigpinepaiute.org"](mailto:cheyenne.stone@bigpinepaiute.org); bartshe@monolake.org; ["claymiwumati@gmail.com"](mailto:claymiwumati@gmail.com); Bryant.Luu@wildlife.ca.gov; ["clerkrecorder@mono.ca.gov"](mailto:clerkrecorder@mono.ca.gov); Chad_Mellison@fws.gov; ["cmcdonald@nfr-nsn.gov"](mailto:cmcdonald@nfr-nsn.gov); dannon.dirgo@usda.gov; ["courtney.rowe@usda.gov"](mailto:courtney.rowe@usda.gov); Mary.Meagher@usda.gov; ["cshutes@calsport.org"](mailto:cshutes@calsport.org); robbie@monolake.org; ["culture@bridgeportindiancolony.com"](mailto:culture@bridgeportindiancolony.com); shella.irons@usda.gov; ["curator@monobasinhistory.org"](mailto:curator@monobasinhistory.org); tristan.leong@usda.gov; ["d.gutierrez@bigpinepaiute.org"](mailto:d.gutierrez@bigpinepaiute.org); Bryan.Muro@Waterboards.ca.gov; ["darren.delgado@bishoppaiute.org"](mailto:darren.delgado@bishoppaiute.org); nathan.sill@usda.gov; ["dtonenna@gmail.com"](mailto:dtonenna@gmail.com); Graham.Meese@wildlife.ca.gov; ["easternsierraartist@gmail.com"](mailto:easternsierraartist@gmail.com); ["eric.tillemans@ladwp.com"](mailto:eric.tillemans@ladwp.com); ["erik@accessfund.org"](mailto:erik@accessfund.org); ["events@mammothmuseum.org"](mailto:events@mammothmuseum.org); ["falconkeeper22@gmail.com"](mailto:falconkeeper22@gmail.com); ["geoff@monolake.org"](mailto:geoff@monolake.org); ["heather.brashear@Wildlife.ca.gov"](mailto:heather.brashear@Wildlife.ca.gov); ["Jacqueline.beidl@usda.gov"](mailto:Jacqueline.beidl@usda.gov); ["Jameisha.Washington@usda.gov"](mailto:Jameisha.Washington@usda.gov); ["jennifer.watts@waterboards.ca.gov"](mailto:jennifer.watts@waterboards.ca.gov); ["jon@mewuk.com"](mailto:jon@mewuk.com); ["justin_barrett@fws.gov"](mailto:justin_barrett@fws.gov); ["kary.schlick@usda.gov"](mailto:kary.schlick@usda.gov); ["katie@accessfund.org"](mailto:katie@accessfund.org); ["kayla@friendsoftheinyo.org"](mailto:kayla@friendsoftheinyo.org); ["kspears@mono.ca.gov"](mailto:kspears@mono.ca.gov); ["kutzanuumu@yahoo.com"](mailto:kutzanuumu@yahoo.com); ["kyle@mewuk.com"](mailto:kyle@mewuk.com); ["lillian_jonas@contractor.nps.gov"](mailto:lillian_jonas@contractor.nps.gov); ["lori.gillem@LADWP.com"](mailto:lori.gillem@LADWP.com); ["lucy_basket4@yahoo.com"](mailto:lucy_basket4@yahoo.com); ["lundylakeresort@gmail.com"](mailto:lundylakeresort@gmail.com); ["meryl.picard@bishoppaiute.org"](mailto:meryl.picard@bishoppaiute.org); ["michael.tovar@wildlife.ca.gov"](mailto:michael.tovar@wildlife.ca.gov); ["michael.wiese@usda.gov"](mailto:michael.wiese@usda.gov); ["monique.sanchez@usda.gov"](mailto:monique.sanchez@usda.gov); ["nayanake@comcast.net"](mailto:nayanake@comcast.net); ["Nick.Buckmaster@wildlife.ca.gov"](mailto:Nick.Buckmaster@wildlife.ca.gov); ["parker.thaler@Waterboards.ca.gov"](mailto:parker.thaler@Waterboards.ca.gov); ["Patricia.Moyer@Wildlife.ca.gov"](mailto:Patricia.Moyer@Wildlife.ca.gov); ["patsiata@yahoo.com"](mailto:patsiata@yahoo.com); ["rainbowpackers@aol.com"](mailto:rainbowpackers@aol.com); ["Rajaa.Hassan@waterboards.ca.gov"](mailto:Rajaa.Hassan@waterboards.ca.gov); ["Rwgoode911@hotmail.com"](mailto:Rwgoode911@hotmail.com); ["ryan.cooper@wildlife.ca.gov"](mailto:ryan.cooper@wildlife.ca.gov); ["s.manning@bigpinepaiute.org"](mailto:s.manning@bigpinepaiute.org); ["s.saulque@bentontribe.org"](mailto:s.saulque@bentontribe.org); ["Saeed.Jorat@ladwp.com"](mailto:Saeed.Jorat@ladwp.com); ["sb@snowhydrology.com"](mailto:sb@snowhydrology.com); ["secretary@southernsierramiwuknation.org"](mailto:secretary@southernsierramiwuknation.org); ["serrell.smokey@washoe-tribe.us"](mailto:serrell.smokey@washoe-tribe.us); ["ssmiwuknation@gmail.com"](mailto:ssmiwuknation@gmail.com); ["stephanie.heller@usda.gov"](mailto:stephanie.heller@usda.gov); ["THPO@WashoeTribe.us"](mailto:THPO@WashoeTribe.us); ["todd.ellsworth@usda.gov"](mailto:todd.ellsworth@usda.gov); ["Wilfred.Nabahe@usda.gov"](mailto:Wilfred.Nabahe@usda.gov)
Subject: Lee Vining PME discussion
Attachments: [image001.jpg](#)

Hello, Lee Vining technical working group members!

Please join us in a discussion regarding the Lee Vining Project Protection, Mitigation, and Enhancement measures (PMEs) at 9am Pacific on June 11. We will discuss the existing measures SCE intends to bring forward into the new license and would like to hear about any suggested measures from you as well.

Thank you

Carissa Shoemaker

Licensing Coordinator

[<https://www.kleinschmidtgroup.com/>](https://www.kleinschmidtgroup.com/)

C: 907-575-0294

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Join the meeting now https://teams.microsoft.com/l/meetup-join/19%3ameeting_MWM3YmViMzQtZGFIMC00ZTNlTk5NWUtMzFmNDYlMTAwMTlh%40thread.v2/0?context=%7b%22Tid%22%3a%22adc6e70c-c575-40a4-9676-24da4a1fdce9%22%2c%22Oid%22%3a%22527874e1-a95e-47f0-a80b-50185167fec%22%7d

Meeting ID: 215 850 721 467

Passcode: uzNRj9

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Find a local number <https://dialin.teams.microsoft.com/d08180aa-712f-4098-8161-d183ecab7d97?id=606641184>

D-02_Meeting Invitation re 6.11.24 LV PME discussion

Phone conference ID: 606 641 184#

For organizers: Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=527874e1-a95e-47f0-a80b-501855167fec&tenantId=adc6e70c-c575-40a4-9676-24da4a1fdce9&threadId=19_meeting_MWM3YmViMzQtZGF1MC00ZTNiLk5NWUzMzFmNDY1MTAwMTlh@thread.v2&messageId=0&language=en-US> | Reset dial-in PIN <<https://dialin.teams.microsoft.com/usp/pstnconferencing>>

<<https://www.kleinschmidtgroup.com/wp-content/themes/ironstrap/dist/images/logo-footer.gif>>

D-03.1_Notice re LV PME list

From: [Carissa Shoemaker](#)
To: nathan.sill@usda.gov; Andrew.Lyons-Gould@usda.gov; James.Erdman@wildlife.ca.gov; robbie@monolake.org; chad_mellison@fws.gov; beth.lawson@wildlife.ca.gov; Mary.Meagher@usda.gov; Adam.Cohen@Waterboards.ca.gov; Bryan.Muro@Waterboards.ca.gov; Wilfred.Nabahe@usda.gov; Jameisha.Washington@usda.gov; Bryant.Luu@wildlife.ca.gov; greg@monolake.org; kyle@mewuk.com; dannon.dirgo@usda.gov; bartshe@monolake.org; kspears@mono.ca.gov; michael.wiese@usda.gov; Audry.Williams@sce.com; tristan.leong@usda.gov; sheila.irons@usda.gov; Graham.Meese@Wildlife.ca.gov; adam.barnett@usda.gov; kutzanuumu@yahoo.com; [Knight, Jonathan - FS, CA](#)
Cc: [Shannon Luoma](#); [Finlay Anderson](#); [Matthew Woodhall](#); [Kelly Larimer](#); [Martin Ostendorf](#)
Subject: Lee Vining PME list
Date: Tuesday, June 11, 2024 12:17:00 PM
Attachments: [image001.jpg](#)
[Lee Vining PME List 06112024.pdf](#)

Hello Lee Vining stakeholders!

Thank you for discussing the proposed Protection, Mitigation and Enhancement (PME) measures with us today.

A copy of the PME list we looked at together is attached. We heard your request for copies of the existing management plans; however, several of these plans are confidential, so we are working to compile applicable language from the plans to share with you prior to our second PME meeting in mid-July.

Let me know if you have any questions.

Thank you

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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Lee Vining PMEs – to be included in the DLA

PME-1: Minimum Instream Flow Requirements (*existing, no change*)

- Required by USFS 4(e) Condition No. 4 to maintain minimum instream flow requirements
- Maintain required MIF for visual quality.

Table 1. Minimum Flow Requirements by Location

Location	Water Year Type	Minimum Flow (cfs)	Duration
Below Saddlebag Dam ¹	Wet	14	Year-round
	Normal	9	Year-round
	Dry	6	Year-round
Below Tioga Dam	Wet or Normal	If inflow is <2 cfs, the flow must be equal to the inflow and cannot exceed 2 cfs. If the inflow is >2 cfs, the flow must be 2 cfs until the lake water surface elevation is within 2 feet of the main spillway crest; the flow then changes to greater than 60% of the inflow.	May through September
	Dry	If the inflow is <2 cfs, the flow must be equal to the inflow and cannot exceed 2 cfs. If the inflow is >2 cfs, the flow must be 2 cfs until the lake water surface elevation is within 2 feet of the main spillway crest; the flow then changes to the natural inflow.	May through September
	All	2 cfs or the natural inflow	October and November
	All	Equal to the natural flow	December through April
Below Poole Powerhouse ²	All	27 cfs or the natural flow, whichever is less	August through May
	All	89 cfs or the natural flow, whichever is less	June and July

¹ Annual consultation with USFS no later than May 1 of each calendar year. If no agreement is reached, minimum flows are as such.

² Flows here are measured by acoustic velocity meter.

PME – 2: Reservoir Level Requirements for Recreation *(existing, no change)*

- *Required by USFS 4(e) Condition Nos. 4 and 6 to maintain stable lake levels at Tioga and Ellery Lakes to allow for recreational usage*
- *Reservoir levels must be maintained to preserve visual quality.*

Table 1. Reservoir Level Requirements

Location	Water Year Type	Lake Elevation and Duration
Tioga Lake	Wet or normal	<p>When the natural inflow increases to 2 CFS or more, flows from the outlet valve of 2 CFS, and will continue to do so until the water level of Tioga Lake rises to within 2 feet of the elevation of the top of the spillway.</p> <p>After that date, and through September 30th, maintain the water level of Tioga Lake to within two feet of the crest of the spillway. Maintain a continuous, minimum flow below the Dam that is not less than 60% of the natural inflow.</p>
	Dry	<p>May 1st, when the natural inflow is 2 CFS or less, outlet flows cannot be less than the natural inflow and does not exceed 2 CFS.</p> <p>When the natural inflow into Tioga Lake is greater than 2 CFS, release a continuous flow from the outlet valve of 2 CFS. Continue until the lake level rises to within two feet of the crest of the Tioga Lake Dam spillway or, in very dry years, reaches its peak for the year at some point below that level.</p> <p>From that date through September 30th, release a continuous flow from the outlet valve that is equal to the natural inflow into Tioga Lake.</p>
Ellery Lake	Any	<p>Ellery Lake will be managed to be full (within 2 feet of its spillway elevation) during the annual recreation season (defined as the Friday preceding Memorial Day through the end of September). May be drawn down to a level that is more than within 2 feet of the spillway elevation, but only for short periods of time if needed to meet emergency maintenance needs, or with prior written approval from USFS to do so.</p>

PME – 3: Fish Stocking in Ellery Lake

- Provide funding for stocking in Ellery to offset entrainment: 12%, about \$2,400 annually

PME – 4: NEW Lee Vining Management Plan

Plan will include the following sections/chapters:

- Botanical/Vegetation
 - Vegetation management, including trimming and hazard tree removal
 - List of known invasive plant species in Project Area
 - Activities to remove or reduce the spread of existing invasive plant populations
 - Activities to reduce/prevent introduction of any new invasive plant species
- Threatened, Endangered, and Sensitive Species
 - List of known special status species in the Project Area
 - Known location of special status species in the Project Area

D-03.1_Notice re LV PME list

- List of O&M activities that could result in a disturbance to special status species
 - Activities that trigger for pre-project surveys and consultation
- Avoidance measures (including construction or hazard tree removal timing windows)
- Routine O&M Activities
 - Activities needed to operate the project smoothly
 - Material removal
 - Facilities repair and maintenance
 - Including gates, fencing, structural inspections
 - Painting
 - Road maintenance
 - Stream deposit management and slide debris removal
- Consultation and reporting

PME – 5: HPMP – *confidential plan*

- Guidelines for managing or monitoring archaeological site conditions
- Avoidance measures for TCPs and other cultural sites
- Consultation and reporting

Plans developed as part of the current license that we may want to update or incorporate to other PMEs listed above:

- Stream Gauges and Lake Level Monitoring Plan
 - *USFS 4(e) Condition No. 5*
 - Monitoring and gage locations
 - Reporting requirements
- Plan for Oil and Hazardous Waste Storage and Spill Prevention and Cleanup
 - *USFS 4(e) Condition No. 8*

Plans or PMEs developed as part of the current license not being carrying forward:

- USFS 4(e) Condition No. 7: Riparian Vegetation and Aquatic Monitoring
- USFS 4(e) Condition No. 10: Plan for Storage and/or Disposal of Excess Construction/Tunnel Spoils and Slide Materials
- [A component of] USFS 4(e) Condition No. 11: Plan for the Design and Construction of Project Facilities in Order to Preserve or Enhance Visual Quality (*portions of this will be incorporated into new Mgmt Plan*)

SCE Corporate Plans that apply to the Project, but are not required under the existing license and will not be updated with the DLA but may be referenced in the new Management Plan (incorporated by reference)

- Avian Protection Plan
- Nesting Bird Management Guidance for Small Projects
- Vegetation Management Operations Manual
- Wildfire Mitigation Plan

D-03.1_Notice re LV PME list

- Invasive Mussel Prevention Plan

D-03.2_Poll re LV PME meeting #2

From: [Carissa Shoemaker](#)
To: [Shannon Luoma](#); [Finlay Anderson](#); [Kelly Larimer](#); [Matthew Woodhall](#); [Martin Ostendorf](#); nathan.sill@usda.gov; Andrew.Lyons-Gould@usda.gov; James.Erdman@wildlife.ca.gov; robbie@monolake.org; chad_mellison@fws.gov; beth.lawson@wildlife.ca.gov; Mary.Meagher@usda.gov; Adam.Cohen@Waterboards.ca.gov; Bryan.Muro@Waterboards.ca.gov; Wilfred.Nabahe@usda.gov; Jameisha.Washington@usda.gov; Bryant.Luu@wildlife.ca.gov; greg@monolake.org; kyle@mewuk.com; dannon.dirgo@usda.gov; bartshe@monolake.org; kspears@mono.ca.gov; michael.wiese@usda.gov; Audry.Williams@sce.com; tristan.leong@usda.gov; sheila.iron@usda.gov; Graham.Meese@Wildlife.ca.gov; adam.barnett@usda.gov; kutzanuumu@yahoo.com
Subject: Lee Vining PME discussion #2 - poll for date
Date: Tuesday, June 11, 2024 10:09:00 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello Lee Vining stakeholders!

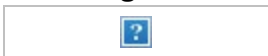
As a follow up to our first Protection, Mitigation, and Enhancement (PME) measures meeting today, the relicensing team would like to set a time to discuss the measures that stakeholders would like to see in the Draft License Application. Please use the poll below to let us know which time(s) you are available for this meeting.

Let me know if you have any questions.

 **Scheduling poll**
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Thank you!

Carissa Shoemaker
Licensing Coordinator



C: 907-575-0294

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D-03.3_USFS reply re LV PME Meeting date

From: [Meagher, Mary - FS, CA](#)
To: [Carissa Shoemaker](#)
Cc: [Knight, Jonathan - FS, CA](#); [Sill, Nathan - FS, CA](#)
Subject: FW: [External Email]Lee Vining PME discussion #2 - poll for date
Date: Tuesday, June 11, 2024 11:06:19 AM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)

Hi Carissa,

The second PME discussion will occur after my detail ends. I am passing this onto Jon Knight to represent for botany until an Assistant or Forest Botanist is filled on the Inyo.

Warm Regards,



Mary Meagher
Acting Forest Botanist
Forest Service
Inyo National Forest

c: 530-562-7083
mary.meagher@usda.gov

351 Pacu Ln.
Bishop, CA 93514
www.fs.usda.gov/inyo



**Caring for the land and serving
people**

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>

Sent: Tuesday, June 11, 2024 10:09 AM

To: Shannon Luoma <Shannon.Luoma@Kleinschmidtgroup.com>; Finlay Anderson <finlay.anderson@kleinschmidtgroup.com>; Kelly Larimer <Kelly.Larimer@KleinschmidtGroup.com>; Matthew Woodhall <Matthew.Woodhall@sce.com>; Martin Ostendorf <martin.ostendorf@sce.com>; Sill, Nathan - FS, CA <nathan.sill@usda.gov>; Lyons-Gould, Andrew - FS, CA <Andrew.Lyons-Gould@usda.gov>; James.Erdman@wildlife.ca.gov; robbie@monolake.org; chad_mellison@fws.gov; beth.lawson@wildlife.ca.gov; Meagher, Mary - FS, CA <Mary.Meagher@usda.gov>; Adam.Cohen@Waterboards.ca.gov; Bryan.Muro@Waterboards.ca.gov; Nabahe, Wilfred - FS, CA <Wilfred.Nabahe@usda.gov>; Washington, Jameisha - FS, CA <Jameisha.Washington@usda.gov>; Bryant.Luu@wildlife.ca.gov; greg@monolake.org; kyle@mewuk.com; Dirgo, Dannon - FS, CA <dannon.dirgo@usda.gov>; bartshe@monolake.org; kspears@mono.ca.gov; Wiese, Michael - FS, CA <michael.wiese@usda.gov>; Audry Williams <audry.williams@sce.com>; Leong, Tristan - FS, CA

<tristan.leong@usda.gov>; Irons, Sheila - FS, CA <sheila.irons@usda.gov>;
Graham.Meese@Wildlife.ca.gov; Barnett, Adam - FS, CA <adam.barnett@usda.gov>;
kutzanuumu@yahoo.com

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Hello Lee Vining stakeholders!

As a follow up to our first Protection, Mitigation, and Enhancement (PME) measures meeting today, the relicensing team would like to set a time to discuss the measures that stakeholders would like to see in the Draft License Application. Please use the poll below to let us know which time(s) you are available for this meeting.

Let me know if you have any questions.



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Lee Vining PME discussion #2 - poll for date



2 hours duration



4 time options

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Thank you!

Carissa Shoemaker
Licensing Coordinator



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From: [Brashear, Heather@Wildlife](mailto:Brashear_Heather@Wildlife)
To: [Meese, Graham@Wildlife](mailto:Meese_Graham@Wildlife)
Cc: [Carissa Shoemaker](mailto:Carissa_Shoemaker)
Subject: RE: Lee Vining PME discussion
Date: Tuesday, June 11, 2024 8:38:14 AM
Attachments: [image001.png](#)

You don't often get email from heather.brashear@wildlife.ca.gov. [Learn why this is important](#)

Hi Graham,

Great, thanks for letting me know. I have a conflicting meeting and will not be able to attend.

Thank you,

Heather Brashear

Senior Environmental Scientist (Supervisor)

California Department of Fish and Wildlife

Inland Deserts Region | Habitat Conservation Program

3602 Inland Empire Blvd, Suite C-220, Ontario, CA 91764

Cell: 909-239-0755



To report environmental crimes, such as pollution, water diversions, and poaching, please call the CalTIP hotline at (888) 334-2258 or text information to "TIP411" (847411).

From: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Sent: Tuesday, June 11, 2024 8:32 AM
To: Brashear, Heather@Wildlife <Heather.Brashear@Wildlife.ca.gov>;
Carissa.Shoemaker@KleinschmidtGroup.com
Subject: RE: Lee Vining PME discussion

Hi Heather,

I've been the CDFW representative on this project and plan on attending. Thanks for following up.

Thanks,

Graham

From: Brashear, Heather@Wildlife <Heather.Brashear@Wildlife.ca.gov>
Sent: Tuesday, June 11, 2024 8:07 AM
To: Carissa.Shoemaker@KleinschmidtGroup.com
Cc: Meese, Graham@Wildlife <Graham.Meese@Wildlife.ca.gov>
Subject: Lee Vining PME discussion

D-03.4_CDFW reply re LV PME meeting date

Hi Carissa,

I see a meeting for a Lee Vining technical working group on my calendar, but no agenda or details. Would you please provide information on what this working group is for and what CDFW permits are related? Is this a FERC license?

Thank you,

Heather Brashear

Senior Environmental Scientist (Supervisor)

California Department of Fish and Wildlife

Inland Deserts Region | Habitat Conservation Program

3602 Inland Empire Blvd, Suite C-220, Ontario, CA 91764

Cell: 909-239-0755



To report environmental crimes, such as pollution, water diversions, and poaching, please call the CalTIP hotline at (888) 334-2258 or text information to "TIP411" (847411).

D-04_Meeting Invitation re PME discussion #2

From: [Carissa Shoemaker](mailto:Carissa.Shoemaker@kleinschmidtgroup.com)
To: ssmiwuknation@gmail.com; claymiwumati@gmail.com; [Shannon Luoma](mailto:Shannon.Luoma@usda.gov); secretary@southernsierramiwuknation.org; [Finlay Anderson](mailto:Finlay.Anderson@usda.gov); preservation@southernsierramiwuknation.org; [Kelly Larimer](mailto:Kelly.Larimer@usda.gov); cheyenne.stone@bigpinepaiute.org; [Matthew Woodhall](mailto:Matthew.Woodhall@usda.gov); d.gutierrez@bigpinepaiute.org; [Martin Ostendorf](mailto:Martin.Ostendorf@usda.gov); s.manning@bigpinepaiute.org; nathan.sill@usda.gov; meryl.picard@bishoppaiute.org; [Andrew Lyons-Gould@usda.gov](mailto:Andrew.Lyons-Gould@usda.gov); darren.delgado@bishoppaiute.org; [James Erdman@wildlife.ca.gov](mailto:James.Erdman@wildlife.ca.gov); kutzanuumu@yahoo.com; robbie@monolake.org; chair@bridgeportindiancolony.com; chad_mellison@fws.gov; carl@fortindependence.com; beth.lawson@wildlife.ca.gov; falconkeeper22@gmail.com; Mary.Meagher@usda.gov; patsiata@yahoo.com; Adam.Cohen@Waterboards.ca.gov; char54lange@gmail.com; Bryan.Muro@Waterboards.ca.gov; dtonenna@gmail.com; Wilfred.Nabahe@usda.gov; Rwgoode911@hotmail.com; Jameisha.Washington@usda.gov; cmcdonald@nfr-nsn.gov; Bryant.Luu@wildlife.ca.gov; administrator@timbisha.com; greg@monolake.org; jon@mewuk.com; kyle@mewuk.com; s.saulque@bentontribe.org; dannon.dirgo@usda.gov; lucy_basket4@yahoo.com; bartshe@monolake.org; nayanake@comcast.net; kspears@mono.ca.gov; serrell.smokey@washoe-tribe.us; michael.wiese@usda.gov; THPO@WashoeTribe.us; [Audry Williams](mailto:Audry.Williams@usda.gov); Adam.Perez@ladwp.com; tristan.leong@usda.gov; Alisa.Ellsworth@wildlife.ca.gov; sheila.irons@usda.gov; andrea@accessfund.org; Graham.Meese@Wildlife.ca.gov; anne_mankowski@fws.gov; adam.barnett@usda.gov; ashley.blythehaverstock@usda.gov; clerkrecorder@mono.ca.gov; [Jonathan Knight](mailto:Jonathan.Knight@usda.gov); courtney.rowe@usda.gov; cshutes@calsport.org; culture@bridgeportindiancolony.com; curator@monobasinhistory.org; easternsierraartist@gmail.com; eric.tillemans@ladwp.com; erik@accessfund.org; events@mammothmuseum.org; geoff@monolake.org; heather.brashear@Wildlife.ca.gov; Jacqueline.beidl@usda.gov; jennifer.watts@waterboards.ca.gov; justin_barrett@fws.gov; kary.schlick@usda.gov; katie@accessfund.org; kayla@friendsoftheinyo.org; lilian_jonas@contractor.nps.gov; lori.gillem@LADWP.com; lundyakeresort@gmail.com; michael.tovar@wildlife.ca.gov; monique.sanchez@usda.gov; Nick.Buckmaster@wildlife.ca.gov; parker.thaler@Waterboards.ca.gov; Patricia.Moyer@Wildlife.ca.gov; rainbowpackers@aol.com; Rajaa.Hassan@waterboards.ca.gov; ryan.cooper@wildlife.ca.gov; Saeed.Jorat@ladwp.com; sb@snowhydrology.com; stephanie.heller@usda.gov; todd.ellsworth@usda.gov; wendy@friendsoftheinyo.org
Subject: Lee Vining PME discussion #2
Attachments: [image001.jpg](#)

-----Original Appointment-----

From: Carissa Shoemaker <Carissa.Shoemaker@KleinschmidtGroup.com>
Sent: Tuesday, June 18, 2024 4:04 PM
To: Carissa Shoemaker; Shannon Luoma; Finlay Anderson; Kelly Larimer; Matthew Woodhall; Martin Ostendorf; nathan.sill@usda.gov; Andrew.Lyons-Gould@usda.gov; James.Erdman@wildlife.ca.gov; robbie@monolake.org; chad_mellison@fws.gov; beth.lawson@wildlife.ca.gov; Mary.Meagher@usda.gov; Adam.Cohen@Waterboards.ca.gov; Bryan.Muro@Waterboards.ca.gov; Wilfred.Nabahe@usda.gov; Jameisha.Washington@usda.gov; Bryant.Luu@wildlife.ca.gov; greg@monolake.org; kyle@mewuk.com; dannon.dirgo@usda.gov; bartshe@monolake.org; kspears@mono.ca.gov; michael.wiese@usda.gov; Audry Williams; tristan.leong@usda.gov; sheila.irons@usda.gov; Graham.Meese@Wildlife.ca.gov; adam.barnett@usda.gov; kutzanuumu@yahoo.com; Jonathan Knight
Subject: Lee Vining PME discussion #2
When: Tuesday, July 16, 2024 2:00 PM-4:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Hello Lee Vining stakeholders,
Join us to discuss proposed Protection, Mitigation, and Enhancement (PME) measures. Please bring your ideas to discuss during the meeting.

Thank you!

Carissa Shoemaker

Licensing Coordinator

<<https://www.kleinschmidtgroup.com/>>

C: 907-575-0294

Follow us on LinkedIn <<https://www.linkedin.com/company/kleinschmidt-associates/>>

We provide practical solutions for renewable energy, water and environmental projects!

Microsoft Teams Need help? <<https://aka.ms/JoinTeamsMeeting?omkt=en-US>>

Join the meeting now <https://teams.microsoft.com/l/meetup-join/19%3ameeting_Nj10NDI2N2Mt0GVjMi00MjkzLWJlYWQYmMyNWY2MTNlYjEz%40thread.v2/0?>

D-04_Meeting Invitation re PME discussion #2

context=%7b%22Tid%22%3a%22adc6e70c-c575-40a4-9676-24da4a1fdce9%22%2c%22Oid%22%3a%22527874e1-a95c-47f0-a80b-501855167fcc%22%7d>

Meeting ID: 291 190 419 816

Passcode: CdP2t8

Dial in by phone

+1 207-248-8024,,773973593# <tel:+12072488024,,773973593> United States, Portland

Find a local number <<https://dialin.teams.microsoft.com/d08180aa-712f-4098-8161-d183ecab7d97?id=773973593>>

Phone conference ID: 773 973 593#

For organizers: Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=527874e1-a95c-47f0-a80b-501855167fcc&tenantId=adc6e70c-c575-40a4-9676-24da4a1fdce9&threadId=19_meeting_NjI0NDI2N2MtOGVjMi00MjkzLWJlYWQtYmMyNWY2MTNlYjEz@thread.v2&messageId=0&language=en-US>

| Reset dial-in PIN <<https://dialin.teams.microsoft.com/usp/pstnconferencing>>

<<https://www.kleinschmidgroup.com/wp-content/themes/ironstrap/dist/images/logo-footer.gif>>

D-05.1_Link to HEC-RAS files for LV intraday Operations Hydrology Model

From: [Carissa Shoemaker](#)
To: greg@monolake.org
Subject: Carissa Shoemaker shared the folder "SentToG.Reis_20240705" with you
Date: Friday, July 5, 2024 10:58:08 AM
Attachments: [AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)



Carissa Shoemaker shared a folder with
you

Hi Greg,
at this OneDrive link you should find the HEC-RAS files for the Lee Vining intraday operations hydrology model. Please let us know if you have any questions or issues accessing the files.
Thanks!

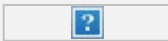


SentToG.Reis_20240705



This link only works for the direct recipients of this message.

Open



[Privacy Statement](#)



D-05.2_Link to HEC-RAS files for LV intraday Operations Hydrology Model

From: [Carissa Shoemaker](#)
To: [Bret Hoffman](#); [Finlay Anderson](#); [Isha Deo](#); [Shannon Luoma](#)
Subject: Carissa Shoemaker shared the folder "SentToG.Reis_20240705" with you
Date: Friday, July 5, 2024 10:58:07 AM
Attachments: [AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)
[AttachedImage](#)



Carissa Shoemaker invited you to edit a folder

Hi Greg,
at this OneDrive link you should find the HEC-RAS files for the Lee Vining intraday operations hydrology model. Please let us know if you have any questions or issues accessing the files.
Thanks!



SentToG.Reis_20240705



This invite will only work for you and people with existing access.

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Share



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D-06.1_Email re updated USFS contact

From: [Dirgo, Dannon - FS, CA](#)
To: [Carissa Shoemaker](#)
Subject: Declined: [EXTERNAL: Suspicious Link]Lee Vining PME discussion #2

Hello,
My detail on the Mono District has come to an end. I will not be able to attend this meeting.
Please include the District Ranger Stephanie Heller at stephanie.heller@usda.gov <<mailto:stephanie.heller@usda.gov>>

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D-06.2_Response to email re updated USFS contact

From: [Carissa Shoemaker](#)
To: [Dirgo, Dannon - FS, CA](#)
Cc: [Shannon Luoma](#)
Subject: RE: [EXTERNAL: Suspicious Link]Lee Vining PME discussion #2
Date: Wednesday, July 10, 2024 6:20:00 PM

Thank you, Dannon!

I've confirmed that Stephanie is invited to the second PME meeting and will be included in future Lee Vining Project communications as well.

Carissa Shoemaker
Licensing Coordinator
www.kleinschmidtgroup.com
907-575-0294

-----Original Appointment-----

From: Dirgo, Dannon - FS, CA <dannon.dirgo@usda.gov>
Sent: Wednesday, July 10, 2024 3:39 PM
To: Carissa Shoemaker
Subject: Declined: [EXTERNAL: Suspicious Link]Lee Vining PME discussion #2
When: Tuesday, July 16, 2024 2:00 PM-4:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: Microsoft Teams Meeting

Hello,

My detail on the Mono District has come to an end. I will not be able to attend this meeting. Please include the District Ranger Stephanie Heller at stephanie.heller@usda.gov

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